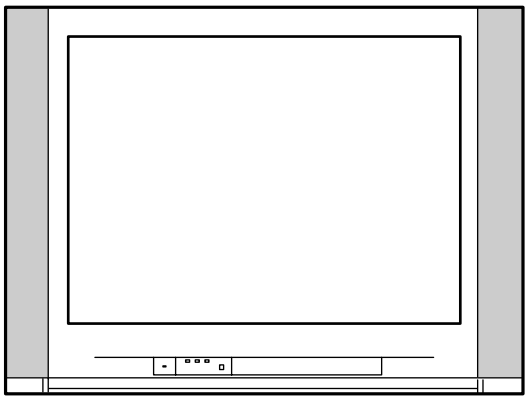
SHARP

SERVICE MANUAL
维修手册

SX9R629A-FX5/



28 SYSTEM COLOUR TELEVISION
28制式彩色电视机

Chassis No. SP-80

MODELS
型号

29A-FX5
29A-FX8

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

为了用户安全起见（根据一些国家的安全规程的需要），应将液晶投影机保持于最初的状态，而且只能使用与指定物相同的部件。

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WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis. To prevent electric shock, do not remove cover. No user – serviceable parts inside. Refer servicing to qualified service personnel.

警 告

该电视机底盘的有些部分通电。当维修本机底盘时，请在电源线插头和电源插座之间使用隔离变压器。
为了防止电击的危险，不要去拆下机盖。在里面的部件，不是使用者所能维修的，必须委托够格的维修人员来进行维修。

FEATURES

■Multi 28 Systems
■Auto Search Tuning System
■100 CH Program Memory
■NICAM (I,B/G), IGR (B/G) Stereo Sound
■High Contrast Picture (Black Stretch Circuit)
■CATV (Hyper Band) Ready
(Used Frequency Synthesizer Tuner)
■Digital-Comb Filter (PAL/NTSC)
■2 Mode Spatializer
■Arabic/Chinese/English/French/Malay/Russian 6 Language OSD
■On Timer/Sleep Timer/Reminder Timer
■Auto Picture Noise Reduction (TV)
■Blue Back Noise Mute
■Rear AV-In/Out Terminals
■Front AV-In Terminals
■Component Input Terminal
■6-Cylinder SP BOX.
■Full Flat CRT
■One Page Text (29A-FX5)

性能

■多系统，共有28制式
■自动调谐系统
■100频道程序存储器
■NICAM(I, B/G)制式，IGR(B/G)制式立体声功能
■高对比度图象（黑色脉冲展宽电路）
■可用于公用天线电视系统（超高频段）（采用了频率共振调谐器）
■数字式梳形滤波器（PAL/NTSC）
■ 2 模式超立体声
■阿拉伯文／中文／英文／法文／马来西亚文／俄文等 6 种语言OSD
■接通定时器／睡眠自动关断定时器／提示定时器
■图象干扰（电视）自动降低
■蓝色背景噪声抑制功能
■后面声象输入／输出端子
■前面声象输入端子
■摄像机输入端子
■ 6 筒SP BOX（卫星处理器盒）
■全平面荧光屏
■单图象数据（只有29A-FX5）

ELECTRICAL SPECIFICATIONS

Power Input ..... AC 110-240V, 50/60Hz (Auto)
Power Consumption ..... 188W(29A-FX5)
185W(29A-FX8)
Convergence ..... Self Convergence System
Focus ..... Bi-Potential, Uni-Potential Electroslatic
Sweep Deflection ..... Magnetic
Intermediate Frequency
Picture IF Carrier ..... 38.9 MHz
Sound IF Carrier
6.5 MHz ..... 32.4 MHz
6.0 MHz ..... 32.9 MHz
5.5 MHz ..... 33.4 MHz
4.5 MHz ..... 34.4 MHz
Colour Sub-Carrier
PAL/NTSC ..... 34.47 MHz
SECAM ..... 34.494/34.65 MHz
NTSC ..... 35.32 MHz
Audio Power Output Rating ..... 12W x 2 (Max)
Speaker
Size ..... 12 x 8 cm Elliptic x 2 pcs.
Voice Coil Impedance ..... 6 ohm at 400Hz
Aerial Input Inpedance ..... 75 ohm Unbalanced
Receiving Channels
PAL-B/G, SECAM-B/G
VHF ..... E2 thru E12
UHF ..... E21 thru E69
CATV ..... X thru Z + 2,
S1 thru S41
PAL-D/K, SECAM-D/K
VHF ..... R1 thru R12,
C1 thru C12
UHF ..... 21 thru 69,
C21 thru C57
PAL-I, SECAM-I
VHF ..... (IRELAND): B thru J
UHF ..... (U.K.,H.K.): 21 thru 69
NTSC-M
VHF ..... (US): 2 thru 13
(JAPAN): 1 thru 12
UHF ..... (US): 14 thru 69
(JAPAN): 13 thru 62
CATV ..... (US): A-6 thru A-1
A thru W+29
(JAPAN): C13 thru C63

Receiving Frequency
VHF Low ..... 44.25 MHz thru 140.25 MHz
VHF High ..... 147.25 MHz thru 423.25 MHz
UHF ..... 431.25 MHz thru 863.25 MHz

Specifications are subject to change without notice.

电路规格

电源 ..... 交流110 ~ 240V、50/60Hz(自动切换)
功率消耗 ..... 188W(29A-FX5)
185W(29A-FX8)
聚焦 ..... 自聚焦系统
焦点 ..... 双电位，单电位静电焦点
扫描偏转 ..... 磁致偏转
中频
图象中频载波 38.9MHz
声音中频载波
6.5MHz 32.4MHz
6.0MHz 32.9MHz
5.5MHz 33.4MHz
4.5MHz 34.4MHz
色彩副载波
PAL/NTSC制式 34.47MHz
SECAM制式 33.494/34.65MHz
NTSC制式 35.32MHz
音响额定输出功率 ..... 12W × 2(最大)
扬声器
尺寸 ..... 12 × 8cm椭圆型 × 2只
音圈阻抗 400Hz时 6Ω
天线输入阻抗 75Ω非平衡式
接收频道
PAL-B/G、SECAM-B/G制式
甚高频VHF ..... E2 ~ E12频道
超高频UHF ..... E21 ~ E69频道
有线电视CATV ..... X ~ Z+2频道
S1 ~ S41频道
PAL-D/K、SECAM-D/K制式
甚高频VHF ..... R1 ~ R12频道
C1 ~ C12频道
超高频UHF ..... 21 ~ 69频道
C21 ~ C57频道
PAL-I、SECAM-I制式
甚高频VHF ..... (爱尔兰)：B ~ J频道
超高频UHF ..... (英国，香港)：21 ~ 69频道
NTSC-M制式
甚高频VHF ..... (美国)：2 ~ 13频道
(日本)：1 ~ 12频道
超高频UHF ..... (美国)：14 ~ 69频道
(日本)：13 ~ 62频道
有线电视CATV ..... (美国)：A-6 ~ A-1频道
A ~ W+29频道
(日本)：C13 ~ C63频道
接收频率
低域甚高频VHF ..... 44.25MHz ~ 140.25MHz
高域甚高频VHF ..... 147.25MHz ~ 423.25MHz
超高频UHF ..... 431.25MHz ~ 863.25MHz

上述规格变更之场合，恕不另行通知

IMPOTANT SERVICE NOTES

Maintenance and repair of this receiver should be done by qualified service peronnel only.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10k ohm Resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead. (AC line cord should be disconnected from AC outlet.)

1. **Picture tube in this receiver employs integral implosion protection.**
2. **Replace with tube of the same type number for continued safety.**
3. **Do not lift picture tube by the neck.**
4. **Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.**

X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing many produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed:

1. **When repairing the circuit, be sure not to increase the high voltage to more than 34.0 kV (at beam 0μA) for the set.**
2. **To keep the set in a normal operation, be sure to make it function on 30.0 ± 1.5kV (at beam 1.8 mA) in the case of the set. The set has**
∴ **been factory-Adjusted to the above mentioned high voltage.**
   If there is a possibility that the high voltage fluctuates as a result of repairs, never forget to check for such high voltage after the work.
3. **Do not substitute a picture tube with unauthorized types and/or brands which may cause excess X-Ray radiation.**

BEFORE RETURNING THE RECEIVER

Before returning the receiver to the user, perform the following safety checks.

1. **Inspect all lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.**
2. **Inspect all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor- capacity networks, mechanical insulators etc.**

保养维修重要注意事项

本电视机的保养只得由专门技术人员进行。

关于高压系统和显象管的保养维修

对高压系统进行保养维修时，先于显象管管座金属部分与第二阳极引线间用绝缘线（诸如测试探针等）串接一只10ｋΩ的电阻器，以除去残留于高压系统中的静电。（之前，应从电源插座中拔出本机的电源引线插头。）

1. 本电视机显象管为整体内爆防护设计。
2. 为保证本电视机持久使用的安全，显象管的更换必须使用同型号者。
3. 搬移显象管时，不得倒持其颈部上提。
4. 拆装搬移显象管，必须先用布物等包护荧屏防碎玻璃，并且作完全放电处理后才能进行。

关于X射线

本电视机为无辐射的设计。因此，任何X 射线均设计控制于最小绝对极限。然而，在发生故障或保障维修时，过长时间地暴露机芯内部加以放置之场合，便有可能在其近旁产生有害的X射线辐射影响。为此，务请遵循下述预防措施：

1. 维修调整本电视机内部电路时，切勿让其高压超过34.0kV（电子束电流为0μA时）。
2. 为保证本电视机的正常工作，务必保证其高压为30.0±1.5kV（电子束电流为1.8mA时）的工作条件。该工作条件值在本电视机出厂前已经调试验收。
   ∴本电视机一旦经维修调整，可能导致上述工作高压规定值发生偏动。因此，维修调整完毕，务请重新对其高压值进行确认检查。
3. 更换显象管时，不得使用非经认可的、不同厂家、不同型号的显象管，以免产生超过规定标准的X射线辐射的危险。

维修后归还之前

在把维修后的电视机归还给用户之前，务请进行下列的安全检查。

1. 检查电视机中的所有导线的绝缘包皮有无扭折破损之处，于机芯底板和其它金属部件之间有无他物夹杂。
2. 检查电视机中的所有非金属质的控制旋钮、绝缘鱼鳞纸，机壳后盖、调节器和仪器隔室盖罩或屏蔽，电阻—电容隔离网以及机械部件隔离器等保护绝缘装置、器材。

ADJUSTMENT PRECAUTION

The model is a mixture of the adjustment items of I²C BUS-CONTROL and the existing analog adjustment. Moreover, since the adjustment with I²C BUS-CONTROL is composed of the items which are set with the initial values (preset values) alone and the data variable items, refer to the following.

1) Setting method to the microprocessor service mode

① When the jumpers 351 and 352 of SET UP are short-circuited, enter into the service mode (I²C BUS CONTROL adjustment mode).
② The modes can be sequentially selected with the CH DOWN key of R/C.
③ The modes can be sequentially selected in the reversed order of ② with the CH UP key of R/C.
④ The data can be converted with the VOLUME UP/DOWN key of R/C.
⑤ When the short circuit between the jumpers 351 and 352 of the setup is cut off, it will be released from the service mode.

2) Initial value (preset value) setting

① When the MAIN POWER switch set at the service mode side is turned on, the initial value will be automatically set only on the new E²PROM (discriminated with the head 4 bytes).
② The initial data is set as shown in the attached sheets.
③ Take care that there are the items which need be changed and the items in which the initial values continue set.

调整时的注意事项

在本型号中，按照I²C总线控制的调整项目和历来的模拟调整混在一起。并且，按照I²C总线控制进行调整时，由于有只进行初始值（预先设定值）设定的项目和数据可变的项目，因此在调整时请参照下面的说明。

1）进行微机保养调整状态的设定方法

① 将SET UP的跨接片351与352进行连接就可进行保养调整状态的设定（I²C总线控制调整状态）。
② 通过R/C的频道下移(CH DOWN)键可以按照顺序选择各调整状态。
③ 通过R/C的频道上移(CH UP)键可以按照与②相反的顺序选择各调整状态。
④ 通过R/C的音量上移/下移(VOLUME UP/DOWN)键可以进行数据变换。
⑤ 将SET UP的跨接片351与352的连接断开的话，就可解除保养调整状态。

2）初始值（预先设定值）的设定

① 当设定于保养调整状态时，如果主电源开关(MAIN POWER SW)置于开(ON)，而且E²PROM是第一次使用的话（根据前面的4个字节进行判断），则自动地进行初始值设定。
② 有关所设定的初始值请参照其它页。
③ 由于有要进行数据变更的项目和不必改变初始值的项目，请加以注意。

SERVICE MODE

The service key selects the service mode. (Refer to the attached table.)
Select the item with CH UP/DOWN key, and change the data with VOL UP/DOWN key.
Moreover, in the service mode, the item can be directly selected by entering the following key.

Service item	R/C-CODE	Remarks
CUTOFF BKGD	CONTRAST-UP	
CUTOFF BKGD DVD	CONTRAST-UP	*1
V-AMP50	COLOUR-UP	
V-LINE50	COLOUR-DOWN	
V S-CORR50	BRIGHT-UP	
V-CENT50	BRIGHT-DOWN	
H-CENT50	TINT-UP	
H-SIZE50	TINT-DOWN	
E/W PAR	CONTRAST-DOWN	
E/W COR	SPA-DOWN	
TRAPE	BALLANCE-UP	
SCM BELL	SHARPNESS-UP	
SCM R-Y	SHARPNESS-DOWN	
SCM B-Y	TREBLE-UP	
SUB COL	SPATIALIZER-UP	
SUB COL DVD	SPATIALIZER-UP	*1
SUB TINT	BASS-DOWN	
SUB TINT DVD	BASS-DOWN	*1
SUB BRI	BASS-UP	
SUB BRI DVD	BASS-UP	*1
SUB CONT	TREBLE-DOWN	
SUB CONT DVD	TREBLE-DOWN	*1
SUB VOL	BALLANCE-DOWN	
V-AMP60	COLOUR-UP	*2
V-LINE60	COLOUR-DOWN	*2
V S-CORR60	BRIGHT-UP	*2
V-CENT60	BRIGHT-DOWN	*2
H-CENT60	TINT-UP	*2
H-SIZE60	TINT-DOWN	*2
PIP-HPOS	TUNE-UP	
PIP-SUB-TINT	TUNE-DOWN	
DUAL-PARA	FINE-UP	
MAIN-HCENT	FINE-DOWN	*2

Don't use mute key at CUT OFF/BKGD mode. Because BKGD data is initialized.
*1 To receive DVD, switch the key input.
*2 To receive the main 60Hz when inputting the key, switch it from 50Hz key.

• In the service mode, set the user data as shown below.

	USER DATA
CONTRAST	MAX(60/60)
COLOUR	CENT(0)
BRIGHTNESS	CENT(0)
TINT	CENT(0)
SHARPNESS	CENT(0)
S-VOLUME	MIN(0)
WHITE TEMP	CENT(0)
BLUE BACK	OFF
C SYSTEM	AUTO
S SYSTEM	*3
PICTURE NR	OFF
S-BOOSTER	OFF
TREBLE	CENT(0)
BASS	CENT(0)
SPATIALIZER	OFF
BALANCE	CENT(0)
SAVE	OFF

* 3 Setting system of each CH before switch to 1 service mode

保养调整状态

通过保养调整键进入保养调整状态。(请参照附表)
请用频道上移/下移(CH UP/DOWN)键选择项目，再用音量上移/下移(VOL UP/DOWN)变更数据。
此外在保养调整状态时，可通过以下键来直接选择项目。

保养调整项目	R/C编码	备注
CUTOFF BKGD	对比度—上移(CONTRAST-UP)	
CUTOFF BKGD DVD	对比度—上移(CONTRAST-UP)	*1
V-AMP50	色彩—上移(COLOUR-UP)	
V-LINE50	色彩—下移(COLOUR-DOWN)	
V S-CORR50	亮度—上移(BRIGHT-UP)	
V-CENT50	亮度—下移(BRIGHT-DOWN)	
H-CENT50	色调—上移(TINT-UP)	
H-SIZE50	色调—下移(TINT-DOWN)	
E/W PAR	对比度—下移(CONTRAST-DOWN)	
E/W COR	超立体声控制—下移(SPA-DOWN)	
TRAPE	平衡—上移(BALLANCE-UP)	
SCM BELL	清晰度—上移(SHARPNESS-UP)	
SCM R-Y	清晰度—下移(SHARPNESS-DOWN)	
SCM B-Y	高音—上移(TREBLE-UP)	
SUB COL	超立体声控制—上移(SPATIALIZER-UP)	
SUB COL DVD	超立体声控制—上移(SPATIALIZER-UP)	*1
SUB TINT	低音—下移(BASS-DOWN)	
SUB TINT DVD	低音—下移(BASS-DOWN)	*1
SUB BRI	低音—上移(BASS-UP)	
SUB BRI DVD	低音—上移(BASS-UP)	*1
SUB CONT	高音—下移(TREBLE-DOWN)	
SUB CONT DVD	高音—下移(TREBLE-DOWN)	*1
SUB VOL	平衡—下移(BALLANCE-DOWN)	
V-AMP60	色彩—上移(COLOUR-UP)	*2
V-LINE60	色彩—下移(COLOUR-DOWN)	*2
V S-CORR60	亮度—上移(BRIGHT-UP)	*2
V-CENT60	亮度—下移(BRIGHT-DOWN)	*2
H-CENT60	色调—上移(TINT-UP)	*2
H-SIZE60	色调—下移(TINT-DOWN)	*2
PIP-HPOS	调谐—上移(TUNE-UP)	
PIP-SUB-TINT	调谐—下移(TUNE-DOWN)	
DUAL-PARA	微调—上移(FINE-UP)	
MAIN-HCENT	微调—下移(FINE-DOWN)	*2

不要在CUTOFF/BKGD状态时使用消音（mute）键，因为这将使BKGD的数据被初始化。
※1. 接收DVD信号时，转换输入键。
※2. 输入键的60Hz接收时，用50Hz键进行转换。

● 在保养调整状态时，请将用户数据按下表进行设定。

	用户数据
对比度(CONTRAST)	最大(60/60)
色彩(COLOUR)	中间(0)
亮度(BRIGHTNESS)	中间(0)
色调(TINT)	中间(0)
清晰度(SHARPNESS)	中间(0)
S-音量(S-VOLUME)	最小(0)
白色温度(WHITE TEMP)	中间(0)
蓝色背景(BLUE BACK)	关
C系统(C SYSTEM)	自动
S系统(S SYSTEM)	※3
图象噪声比(PICTURE NR)	关
S-放大级(S-BOOSTER)	关
高音(TREBLE)	中间(0)
低音(BASS)	中间(0)
超立体声控制(SPATIALIZER)	关
平衡(BALANCE)	中间(0)
保存(SAVE)	关

※3. 在切换至保养调整状态之前的各个频道的设定系统。

Data at Address 00H thru 03H of E²PROM are read during shift to the service mode.
If any data is different from the following, E²PROM will be initializes as shown in the table.

00H : 55 01H : 88 02H : 32 03H : 13

Note : If you use new E²PROM, it will be initialized. When you used new IC, it can work easily.

• Adjusting items

1. Service mode 1

No.	Initial value	Data range	OSD display	IC	Data setting	Initial value	Remarks
0	Blank		SERVICE MODE				
1	Cutoff adjustment		CUTOFF BKGD		*	*	*6
2	Cutoff adjustment (DVD)		CUTOFF BKGD		*	*	*7
3	Vertical size adjustment (50Hz)	0~127	V-AMP50	PDC	V-AMPLITUDE	97	*1
4	Vertical linearity adjustment (50Hz)	0~31	V-LINE50	PDC	V-LINEARITY	25	*1
5	Vertical S compensation adjustment (50Hz)	0~63	V S-CORR50	PDC	V-S.CORRECTION	44	*1
6	Vertical position adjustment (50Hz)	0~7	V-CENT50	VCD1	V-PHASE	7	*1
7	Horizontal position adjustment (50Hz)	0~31	H-CENT50	VCD1	H-PHASE	15	*1
8	Horizontal size adjustment (50Hz)	0~63	H-SIZE50	PDC	H-SIZE	38	*1
9	Parabola adjustment	0~63	E/W PAR	PDC	E-W PARABORA	28	
10	Corner adjustment	0~31	E/W COR	PDC	E-W CORNER	20	
11	Trapezoid adjustment	0~127	TRAPE	PDC	TRAPEZIUM	62	
12	SECAM BELL filter adjustment	0~255	SCM BELL	SECAM	BELL FILTER	124	
13	SECAM R-Y adjustment	0~15	R-Y	SECAM	R-Y	8	
14	SECAM B-Y adjustment	0~15	B-Y	SECAM	B-Y	8	
15	SUB-COLOUR sub adjustment	0~127	SUB COL	VCD1	COLOUR	40	
16	SUB-COLOUR sub adjustment (DVD)	0~127	SUB COL DVD	VCD1	COLOUR	40	
17	SUB-TINT adjustment	0~127	SUB TINT	VCD1	TINT	64	*5
18	SUB-TINT sub adjustment (DVD)	0~127	SUB TINT DVD	VCD1	BASEBAND-TINT	64	*5
19	SUB-BRIGHTNESS adjustment	0~255	SUB BRI	VCD1	BRIGHTNESS	140	
20	SUB-BRIGHTNESS adjustment (DVD)	0~255	SUB BRI DVD	VCD1	BRIGHTNESS	140	
21	SUB CONTRAST adjustment	0~31	SUB CONT	VCD1	SUB CONT	23	
22	SUB CONTRAST adjustment (DVD)	0~31	SUB CONT DVD	VCD1	SUB CONT	23	
23	SUB-SOUND volume adjustment	0~127	SUB VOL	DSP	VOLUME	127	
24	Vertical size adjustment (60Hz)	0~127	V-AMP60	PDC	V-AMPLITUDE	97	*8
25	Vertical linearity adjustment (60Hz)	0~31	V-LINE60	PDC	V-LINEARITY	25	*8
26	Vertical S compensation adjustment (60Hz)	0~63	V S-CORR60	PDC	V-S.CORRECTION	44	*8
27	Vertical position adjustment (60Hz)	0~7	V-CENT60	VCD1	V-PHASE	4	*3 *8
28	Horizontal position adjustment (60Hz)	0~31	H-CENT60	VCD1	H-PHASE	18	*8
29	Horizontal size adjustment (60Hz)	0~63	H-SIZE60	PDC	H-SIZE	38	*8
30	Vertical high voltage compensation	0~7	V-COM	PDC	V-COMPENSATION	6	
31	Horizontal high voltage compensation	0~7	H-COM	PDC	H-COMPENSATION	2	
32	Vertical position	0~3	V-BIAS	PDC	V-SFT	0	
33	Vertical compensation	0~15	V-"COR	PDC	V-" CORRECTION	10	
34	PIP display position (horizontal)	0~15	PIP-HPOS	PIP	BGH-FP	14	
35	PIP display position (vertical)	0~15	PIP-VPOS	PIP	BGV-FP	0	
36	PIP SUB-TINT adjustment	0~63	PIP-SUB-TINT	VCD2	TINT	32	
37	2-screen vertical size adjustment (50Hz)	0~127	DUAL-VSIZE50	PDC	V-AMPLITUDE	72	*4
38	2-screen horizontal size adjustment (50Hz)	0~63	DUAL-HSIZE50	PDC	H-SIZE	41	*4
39	2-screen vertical size adjustment (60Hz)	0~127	DUAL-VSIZE60	PDC	V-AMPLITUDE	72	*4
40	2-screen horizontal size adjustment (60Hz)	0~63	DUAL-HSIZE60	PDC	H-SIZE	41	*4
41	2-screen parabola adjustment	0~63	DUAL-PARA	PDC	E-W PARABOLA	18	*4
42	Main-screen horizontal adjustment (50Hz)	0~15	MAIN-HCENT50	PIP	MAH-FP	7	
43	Main-screen horizontal adjustment (60Hz)	0~15	MAIN-HCENT60	PIP	MAH-FP	7	
44	NVM mode	After adjustment, set another data except above at Address 00H thru 03H and turn on AC power, and the data will be initialized. Take care for this.					

进入保养调整状态时，即会读出E²PROM的地址代码00H ~ 03H的数据，此时，如果与以下数据不同时，则应按下表所示进行E²PROM的初始化处理。

00H：55 01H：88 02H：32 03H：13

注：如果使用新的E²PROM的话，应对其进行初始化。当使用新的集成电路块(IC)时，便于进行操作。

●调整项目

1. 保养调整状态 I

编号	设定项目	数据范围	OSD显示	IC	数据设定	初始值	备注
0	无		SERVICE MODE				
1	截止调整		CUTOFF BKGD		*	*	※6
2	截止调整(DVD)		CUTOFF BKGD		*	*	※7
3	垂直尺寸调整(50Hz)	0~127	V-AMP50	PDC	V-AMPLITUDE	97	※1
4	垂直线性度调整(50Hz)	0~31	V-LINE50	PDC	V-LINEARITY	25	※1
5	垂直S字校正调整(50Hz)	0~63	V S-CORR50	PDC	V-S.CORRECTION	44	※1
6	垂直位置调整(50Hz)	0~7	V-CENT50	VCD1	V-PHASE	7	※1
7	水平位置调整(50Hz)	0~31	H-CENT50	VCD1	H-PHASE	15	※1
8	水平尺寸调整(50Hz)	0~63	H-SIZE50	PDC	H-SIZE	38	※1
9	抛物面调整	0~63	E/W PAR	PDC	E-W PARABORA	28	
10	角部调整	0~31	E/W COR	PDC	E-W CORNER	20	
11	梯形校正	0~127	TRAPE	PDC	TRAPEZIUM	62	
12	SECAM贝尔滤波器调整	0~255	SCM BELL	SECAM	BELL FILTER	124	
13	SECAM制式红色亮度调整	0~15	R-Y	SECAM	R-Y	8	
14	SECAM制式蓝色亮度调整	0~15	B-Y	SECAM	B-Y	8	
15	副彩色调整	0~127	SUB COL	VCD1	COLOUR	40	
16	副彩色调整(DVD)	0~127	SUB COL DVD	VCD1	COLOUR	40	
17	副色调调整	0~127	SUB TINT	VCD1	TINT	64	※5
18	副色调调整(DVD)	0~127	SUB TINT DVD	VCD1	BASEBAND-TINT	64	※5
19	副亮度调整	0~255	SUB BRI	VCD1	BRIGHTNESS	140	
20	副亮度调整(DVD)	0~255	SUB BRI DVD	VCD1	BRIGHTNESS	140	
21	副对比度调整	0~31	SUB CONT	VCD1	SUB CONT	23	
22	副对比度调整(DVD)	0~31	SUB CONT DVD	VCD1	SUB CONT	23	
23	副音量调整	0~127	SUB VOL	DSP	VOLUME	127	
24	垂直尺寸调整(60Hz)	0~127	V-AMP60	PDC	V-AMPLITUDE	97	※8
25	垂直线性度调整(60Hz)	0~31	V-LINE60	PDC	V-LINEARITY	25	※8
26	垂直S字校正调整(60Hz)	0~63	V S-CORR60	PDC	V-S.CORRECTION	44	※8
27	垂直位置调整(60Hz)	0~7	V-CENT60	VCD1	V-PHASE	4	※3 ※8
28	水平位置调整(60Hz)	0~31	H-CENT60	VCD1	H-PHASE	18	※8
29	水平尺寸调整(60Hz)	0~63	H-SIZE60	PDC	H-SIZE	38	※8
30	垂直高压补偿	0~7	V-COM	PDC	V-COMPENSATION	6	
31	水平高压补偿	0~7	H-COM	PDC	H-COMPENSATION	2	
32	垂直位置	0~3	V-BIAS	PDC	V-SFT	0	
33	垂直校正	0~15	V-"COR	PDC	V-" CORRECTION	10	
34	PIP显示位置(水平)	0~15	PIP-HPOS	PIP	BGH-FP	14	
35	PIP显示位置(垂直)	0~15	PIP-VPOS	PIP	BGV-FP	0	
36	PIP副色调的调整	0~63	PIP-SUB-TINT	VCD2	TINT	32	
37	双画面垂直尺寸的调整(50Hz)	0~127	DUAL-VSIZE50	PDC	V-AMPLITUDE	72	※4
38	双画面水平尺寸的调整(50Hz)	0~63	DUAL-HSIZE50	PDC	H-SIZE	41	※4
39	双画面垂直尺寸的调整(60Hz)	0~127	DUAL-VSIZE60	PDC	V-AMPLITUDE	72	※4
40	双画面水平尺寸的调整(60Hz)	0~63	DUAL-HSIZE60	PDC	H-SIZE	41	※4
41	双画面抛物面的调整	0~63	DUAL-PARA	PDC	E-W PARABOLA	18	※4
42	主画面水平位置的调整(50Hz)	0~15	MAIN-HCENT50	PIP	MAH-FP	7	
43	主画面水平位置的调整(60Hz)	0~15	MAIN-HCENT60	PIP	MAH-FP	7	
44	NVM状态	调整结束后，应将地址代码00H ~ 03H数据设定于上述以外的范围交流电源接通时，则会进行初始化处理，务请注意。					

[Remarks]
*1 When 50Hz data is set, the setting data is increased or decreased to set 60Hz data.
(However, 50Hz data does not vary when 60Hz data is set.)
*2 Because of the fixed data, it is unnecessary to set the data unless otherwise specified.
*3 It is impossible to set (use) the data “6” and “7”. Use “0” thru “5”.
Moreover, check whether “6” and “7” are used or not.
*4 When the data for the 1-screen mode is set, the set data is increased or decreased to set the data for the 2-screen mode.

Item	Offset value
2-screen vertical size (50Hz)	–25
2-screen horizontal size (50Hz)	+3
2-screen vertical size (60Hz)	–25
2-screen horizontal size (60Hz)	+3
2-screen parabola	–10

*5 It becomes "Y-Mute" in case of the SUB-TINT (TV & DVD) adjustment.

*6 CUTOFF BKGD

	Initial value
CUT-R	63
CUT-G	63
CUT-B	63
DRIVE-G	63
DRIVE-B	63

*7 CUTOFF BKGD DVD

	Initial value
CUT-R	63
CUT-G	63
CUT-B	63
DRIVE-G	63
DRIVE-B	63

*8 When 50Hz data is set, the set data is increased or decreased to set 60Hz data.

Item	Offset value
Vertical size	0
Verticality	0
Vertical S type compensation	0
Vertivcal position	–3
Horizontal position	+3
Horizontal size	0

［注意］
※1 50Hz数据设定时，应调节其设定数据，以进行60Hz数据的设定。
（但是，设定60Hz数据时，50Hz数据则不会变化）
※2 为固定数据，无特殊指定外，不需进行任何设定。
※3 不能设定数据“6”、“7”，请使用“0～“5”。
另外，请确认是否使用数据“6”、“7”。
※4 单图象数据设定时，应调节其设定数据，以进行双画面数据的设定。

项目	偏移值
双画面垂直尺寸(50Hz)	—25
双画面水平尺寸(50Hz)	+3
双画面垂直尺寸(60Hz)	—25
双画面水平尺寸(60Hz)	+3
双画面抛物面	—10

※5 在进行副色调（TV & DVD）调整时则将变为“Y-消音”（Y-Mute）

※6 CUTOFF BKGD

	初始值
截止红色	63
截止绿色	63
截止蓝色	63
激励绿色	63
激励蓝色	63

※7 CUTOFF BKGD DVD

	初始值
截止红色	63
截止绿色	63
截止蓝色	63
激励绿色	63
激励蓝色	63

※8 50Hz数据设定时，应调节其设定数据，以进行60Hz数据的设定。

项目	偏移值
垂直尺寸	0
垂直	0
垂直S字校正	0
垂直位置	—3
水平位置	+3
水平尺寸	0

INITIAL SETTING FOR CHANNEL SELECT DATA

1) Input in the service mode The channel select data is set into E²PROM with MCL key as shown below. After execution, select POS1 for the channel.

* CHANNEL PRESET data with MCL key input

Production point	SREC/SRAC/SYI/STTM				SREC/SCA(SKD)					JAPAN/NSEC			
R/C CODE	MCL1(R/C CODE 117h)				MCL2(R/C CODE 169h)				INTIAL 8	MCL3(R/C CODE 170h)			
TV-CH	CH-No.	Fv(MHz)	S-SYSTEM		CH-No.	Fv(MHz)	S-SYSTEM		SKIP	CH-No.	Fv(MHz)	S-SYSTEM	
1	E-2	48.25	5.5	B/G	AU-37	590.25	5.5	B/G	OFF	E-2	48.25	5.5	B/G
2	E-4/B-3	62.25	5.5	B/G	AU-0	46.25	5.5	B/G	ON	OI-2	59.25	6.5	D/K
3	OIR-3	77.25	6.5	D/K	AU-2	64.25	5.5	B/G	OFF	CA-3	65.75	6.5	D/K
4	E-5	175.25	5.5	B/G	AU-3	86.25	5.5	B/G	ON	OI-3	77.25	6.5	D/K
5	E-6/B-5	182.25	5.5	B/G	AU-4	95.25	5.5	B/G	ON	CA-5	85.25	6.5	D/K
6	OIR-7	183.25	6.5	D/K	AU-5A	138.25	5.5	B/G	ON	OI-5	93.25	6.5	D/K
7	OIR-8	191.25	6.5	D/K	AU-6	175.25	5.5	B/G	ON	E-5	175.25	5.5	B/G
8	E-8/B-7	196.25	5.5	B/G	AU-7	182.25	5.5	B/G	OFF	CA-8	184.25	6.5	D/K
9	J-9	199.25	4.5	M	AU-8	189.25	5.5	B/G	ON	OI-9	199.25	6.5	D/K
10	E-10/B-9	210.25	5.5	B/G	AU-9	196.25	5.5	B/G	OFF	E-10	210.25	5.5	B/G
11	E-12/B-11	224.25	5.5	B/G	AU-10	209.25	5.5	B/G	OFF	E-12	224.25	5.5	B/G
12	E-21	471.25	5.5	B/G	AU-11	216.25	5.5	B/G	ON	I-23	487.25	6.0	I
13	I-23	487.25	6.0	I	SKIP OFF FREE				ON	I-25	503.25	6.0	I
14	E-25	503.25	5.5	B/G	SKIP OFF FREE				ON	E-34	575.25	6.5	B/G
15	E-34	575.25	5.5	B/G	SKIP OFF FREE				ON	OI-42	639.25	6.5	D/K
16	E-35	583.25	5.5	B/G	SKIP OFF FREE				ON	OI-58	767.25	6.5	D/K
17	E-37	599.25	5.5	B/G	SKIP OFF FREE				ON	CHN/CA-53	831.25	6.5	D/K
18	J-38	621.25	4.5	M	SKIP OFF FREE				ON	I-69	855.25	6.0	I
19	OIR-42	639.25	6.5	D/K	SKIP OFF FREE				ON	JA-1	91.25	4.5	M
20	B-50	703.25	5.5	B/G	SKIP OFF FREE				ON	JA-2	97.25	4.5	M
21	I-54	735.25	6.0	I	SKIP OFF FREE				ON	JA-6	183.25	4.5	M
22	E-58	767.25	5.5	B/G	SKIP OFF FREE				ON	JA-8	193.25	4.5	M
23	E-64	815.25	5.5	B/G	SKIP OFF FREE				ON	JA-11	211.25	4.5	M
24	I-69	855.25	6.0	I	SKIP OFF FREE				ON	JA-12	217.25	4.5	M
25	E-69	855.25	5.5	B/G	SKIP OFF FREE				ON	JA-14	477.25	4.5	M
26	US-2	55.25	4.5	M	SKIP OFF FREE				ON	JA-50	693.25	4.5	M
27	A-6	83.25	4.5	M	SKIP OFF FREE				ON	WE-4	62.25	5.5	B/G
28	JA-6	183.25	4.5	M	AU-28	527.25	5.5	B/G	OFF	WE-25	503.25	5.5	B/G
29	JA-8	193.25	4.5	M	SKIP OFF FREE				ON	WE-28	527.25	5.5	B/G
30	JA-12	217.25	4.5	M	SKIP OFF FREE				ON	WE-37	599.25	5.5	B/G
31	US-14	471.25	4.5	M	SKIP OFF FREE				ON	JPN-38	621.25	4.5	M
32	JA-14	477.25	4.5	M	SKIP OFF FREE				ON	WE-64	815.25	5.5	B/G
33	JA-50	693.25	4.5	M	SKIP OFF FREE				ON	S-2	112.25	5.5	B/G
34	US-83	885.25	4.5	M	SKIP OFF FREE				ON	S-10	168.25	5.5	B/G
35	S-2	112.25	5.5	B/G	SKIP OFF FREE				ON	S-20	294.25	5.5	B/G
36	S-10	168.25	5.5	B/G	SKIP OFF FREE				ON	E-41	463.95	5.5	B/G
37	SKIP OFF FREE				AU-37	590.25	5.5	B/G	ON	E-5	174.95	5.5	B/G
38	S-20	294.25	5.5	B/G	SKIP OFF FREE				ON	E-5	175.55	5.5	B/G
39	S-41	463.25	5.5	B/G	SKIP OFF FREE				ON	SKIP OFF FREE			
40	SKIP OFF FREE				SKIP OFF FREE				ON	SKIP OFF FREE			
41	B-43	647.25	5.5	B/G	E-2	48.25	5.5	B/G	ON	SKIP OFF FREE			
42	B-45	663.25	5.5	B/G	E-4	62.25	5.5	B/G	ON	SKIP OFF FREE			
43	B-47	679.25	5.5	B/G	OIR-3	77.25	6.5	D/K	ON	SKIP OFF FREE			
44	E-5	174.95	5.5	B/G	E-5	175.25	5.5	B/G	ON	SKIP OFF FREE			
45	E-5	175.55	5.5	B/G	OIR-7	183.25	6.5	D/K	ON	SKIP OFF FREE			
46	SKIP OFF FREE				OIR-8	191.25	6.5	D/K	ON	SKIP OFF FREE			
47	SKIP OFF FREE				E-10	210.25	5.5	B/G	ON	SKIP OFF FREE			
48	SKIP OFF FREE				E-12	224.25	5.5	B/G	ON	SKIP OFF FREE			
49	SKIP OFF FREE				I-23	487.25	6.0	I	ON	SKIP OFF FREE			
50	SKIP OFF FREE				E-25	503.25	5.5	B/G	ON	SKIP OFF FREE			
51	SKIP OFF FREE				E-34	575.25	5.5	B/G	ON	SKIP OFF FREE			
52	SKIP OFF FREE				E-37	599.25	5.5	B/G	ON	SKIP OFF FREE			
53	SKIP OFF FREE				J-38	621.25	4.5	M	ON	SKIP OFF FREE			
54	SKIP OFF FREE				OIR-42	639.25	6.5	D/K	ON	SKIP OFF FREE			
55	SKIP OFF FREE				I-54	735.25	6.0	I	ON	SKIP OFF FREE			
56	SKIP OFF FREE				E-58	767.25	5.5	B/G	ON	SKIP OFF FREE			
57	SKIP OFF FREE				E-64	815.25	5.5	B/G	ON	SKIP OFF FREE			
58	SKIP OFF FREE				I-69	855.25	6.0	I	ON	SKIP OFF FREE			
59	SKIP OFF FREE				JA-1	91.25	4.5	M	ON	SKIP OFF FREE			
60	SKIP OFF FREE				JA-6	183.25	4.5	M	ON	SKIP OFF FREE			
61	SKIP OFF FREE				JA-8	193.25	4.5	M	ON	SKIP OFF FREE			
62	SKIP OFF FREE				JA-12	217.25	4.5	M	ON	SKIP OFF FREE			
63	SKIP OFF FREE				US-14	471.25	4.5	M	ON	SKIP OFF FREE			
64	SKIP OFF FREE				JA-50	693.25	4.5	M	ON	SKIP OFF FREE			
65	SKIP OFF FREE				S-2	112.25	5.5	B/G	ON	SKIP OFF FREE			
66	SKIP OFF FREE				S-10	168.25	5.5	B/G	ON	SKIP OFF FREE			
67	SKIP OFF FREE				S-20	294.25	5.5	B/G	ON	SKIP OFF FREE			
68	SKIP OFF FREE				S-41	463.25	5.5	B/G	ON	SKIP OFF FREE			
69	SKIP OFF FREE				E-5(Lo)	174.25	5.5	B/G	ON	SKIP OFF FREE			
70	SKIP OFF FREE				E-5(Hi)	175.25	5.5	B/G	ON	SKIP OFF FREE			
71	SKIP OFF FREE				SKIP OFF FREE				ON	SKIP OFF FREE			
｜	｜				｜					｜			
99	SKIP OFF FREE				SKIP OFF FREE				ON	SKIP OFF FREE			

选台数据的初始值设定

1) 在保养调整状态下输入时，按下MCL键，使选台数据设定为E²PROM（如下所示）。执行后，再选择POS1。

输入MCL键，选定预设信号。

生产据点	SREC/SRAC/SYI/STTM				SREC/SCA(SKD)					JAPAN/NSEC			
R/C CODE	MCL1(R/C CODE 117h)				MCL2(R/C CODE 169h)				INTIAL 8	MCL3(R/C CODE 170h)			
TV-CH	CH-No.	Fv(MHz)	S-SYSTEM		CH-No.	Fv(MHz)	S-SYSTEM		SKIP	CH-No.	Fv(MHz)	S-SYSTEM	
1	E-2	48.25	5.5	B/G	AU-37	590.25	5.5	B/G	OFF	E-2	48.25	5.5	B/G
2	E-4/B-3	62.25	5.5	B/G	AU-0	46.25	5.5	B/G	ON	OI-2	59.25	6.5	D/K
3	OIR-3	77.25	6.5	D/K	AU-2	64.25	5.5	B/G	OFF	CA-3	65.75	6.5	D/K
4	E-5	175.25	5.5	B/G	AU-3	86.25	5.5	B/G	ON	OI-3	77.25	6.5	D/K
5	E-6/B-5	182.25	5.5	B/G	AU-4	95.25	5.5	B/G	ON	CA-5	85.25	6.5	D/K
6	OIR-7	183.25	6.5	D/K	AU-5A	138.25	5.5	B/G	ON	OI-5	93.25	6.5	D/K
7	OIR-8	191.25	6.5	D/K	AU-6	175.25	5.5	B/G	ON	E-5	175.25	5.5	B/G
8	E-8/B-7	196.25	5.5	B/G	AU-7	182.25	5.5	B/G	OFF	CA-8	184.25	6.5	D/K
9	J-9	199.25	4.5	M	AU-8	189.25	5.5	B/G	ON	OI-9	199.25	6.5	D/K
10	E-10/B-9	210.25	5.5	B/G	AU-9	196.25	5.5	B/G	OFF	E-10	210.25	5.5	B/G
11	E-12/B-11	224.25	5.5	B/G	AU-10	209.25	5.5	B/G	OFF	E-12	224.25	5.5	B/G
12	E-21	471.25	5.5	B/G	AU-11	216.25	5.5	B/G	ON	I-23	487.25	6.0	I
13	I-23	487.25	6.0	I	SKIP OFF FREE				ON	I-25	503.25	6.0	I
14	E-25	503.25	5.5	B/G	SKIP OFF FREE				ON	E-34	575.25	6.5	B/G
15	E-34	575.25	5.5	B/G	SKIP OFF FREE				ON	OI-42	639.25	6.5	D/K
16	E-35	583.25	5.5	B/G	SKIP OFF FREE				ON	OI-58	767.25	6.5	D/K
17	E-37	599.25	5.5	B/G	SKIP OFF FREE				ON	CHN/CA-53	831.25	6.5	D/K
18	J-38	621.25	4.5	M	SKIP OFF FREE				ON	I-69	855.25	6.0	I
19	OIR-42	639.25	6.5	D/K	SKIP OFF FREE				ON	JA-1	91.25	4.5	M
20	B-50	703.25	5.5	B/G	SKIP OFF FREE				ON	JA-2	97.25	4.5	M
21	I-54	735.25	6.0	I	SKIP OFF FREE				ON	JA-6	183.25	4.5	M
22	E-58	767.25	5.5	B/G	SKIP OFF FREE				ON	JA-8	193.25	4.5	M
23	E-64	815.25	5.5	B/G	SKIP OFF FREE				ON	JA-11	211.25	4.5	M
24	I-69	855.25	6.0	I	SKIP OFF FREE				ON	JA-12	217.25	4.5	M
25	E-69	855.25	5.5	B/G	SKIP OFF FREE				ON	JA-14	477.25	4.5	M
26	US-2	55.25	4.5	M	SKIP OFF FREE				ON	JA-50	693.25	4.5	M
27	A-6	83.25	4.5	M	SKIP OFF FREE				ON	WE-4	62.25	5.5	B/G
28	JA-6	183.25	4.5	M	AU-28	527.25	5.5	B/G	OFF	WE-25	503.25	5.5	B/G
29	JA-8	193.25	4.5	M	SKIP OFF FREE				ON	WE-28	527.25	5.5	B/G
30	JA-12	217.25	4.5	M	SKIP OFF FREE				ON	WE-37	599.25	5.5	B/G
31	US-14	471.25	4.5	M	SKIP OFF FREE				ON	JPN-38	621.25	4.5	M
32	JA-14	477.25	4.5	M	SKIP OFF FREE				ON	WE-64	815.25	5.5	B/G
33	JA-50	693.25	4.5	M	SKIP OFF FREE				ON	S-2	112.25	5.5	B/G
34	US-83	885.25	4.5	M	SKIP OFF FREE				ON	S-10	168.25	5.5	B/G
35	S-2	112.25	5.5	B/G	SKIP OFF FREE				ON	S-20	294.25	5.5	B/G
36	S-10	168.25	5.5	B/G	SKIP OFF FREE				ON	E-41	463.95	5.5	B/G
37	SKIP OFF FREE				AU-37	590.25	5.5	B/G	ON	E-5	174.95	5.5	B/G
38	S-20	294.25	5.5	B/G	SKIP OFF FREE				ON	E-5	175.55	5.5	B/G
39	S-41	463.25	5.5	B/G	SKIP OFF FREE				ON	SKIP OFF FREE			
40	SKIP OFF FREE				SKIP OFF FREE				ON	SKIP OFF FREE			
41	B-43	647.25	5.5	B/G	E-2	48.25	5.5	B/G	ON	SKIP OFF FREE			
42	B-45	663.25	5.5	B/G	E-4	62.25	5.5	B/G	ON	SKIP OFF FREE			
43	B-47	679.25	5.5	B/G	OIR-3	77.25	6.5	D/K	ON	SKIP OFF FREE			
44	E-5	174.95	5.5	B/G	E-5	175.25	5.5	B/G	ON	SKIP OFF FREE			
45	E-5	175.55	5.5	B/G	OIR-7	183.25	6.5	D/K	ON	SKIP OFF FREE			
46	SKIP OFF FREE				OIR-8	191.25	6.5	D/K	ON	SKIP OFF FREE			
47	SKIP OFF FREE				E-10	210.25	5.5	B/G	ON	SKIP OFF FREE			
48	SKIP OFF FREE				E-12	224.25	5.5	B/G	ON	SKIP OFF FREE			
49	SKIP OFF FREE				I-23	487.25	6.0	I	ON	SKIP OFF FREE			
50	SKIP OFF FREE				E-25	503.25	5.5	B/G	ON	SKIP OFF FREE			
51	SKIP OFF FREE				E-34	575.25	5.5	B/G	ON	SKIP OFF FREE			
52	SKIP OFF FREE				E-37	599.25	5.5	B/G	ON	SKIP OFF FREE			
53	SKIP OFF FREE				J-38	621.25	4.5	M	ON	SKIP OFF FREE			
54	SKIP OFF FREE				OIR-42	639.25	6.5	D/K	ON	SKIP OFF FREE			
55	SKIP OFF FREE				I-54	735.25	6.0	I	ON	SKIP OFF FREE			
56	SKIP OFF FREE				E-58	767.25	5.5	B/G	ON	SKIP OFF FREE			
57	SKIP OFF FREE				E-64	815.25	5.5	B/G	ON	SKIP OFF FREE			
58	SKIP OFF FREE				I-69	855.25	6.0	I	ON	SKIP OFF FREE			
59	SKIP OFF FREE				JA-1	91.25	4.5	M	ON	SKIP OFF FREE			
60	SKIP OFF FREE				JA-6	183.25	4.5	M	ON	SKIP OFF FREE			
61	SKIP OFF FREE				JA-8	193.25	4.5	M	ON	SKIP OFF FREE			
62	SKIP OFF FREE				JA-12	217.25	4.5	M	ON	SKIP OFF FREE			
63	SKIP OFF FREE				US-14	471.25	4.5	M	ON	SKIP OFF FREE			
64	SKIP OFF FREE				JA-50	693.25	4.5	M	ON	SKIP OFF FREE			
65	SKIP OFF FREE				S-2	112.25	5.5	B/G	ON	SKIP OFF FREE			
66	SKIP OFF FREE				S-10	168.25	5.5	B/G	ON	SKIP OFF FREE			
67	SKIP OFF FREE				S-20	294.25	5.5	B/G	ON	SKIP OFF FREE			
68	SKIP OFF FREE				S-41	463.25	5.5	B/G	ON	SKIP OFF FREE			
69	SKIP OFF FREE				E-5(Lo)	174.25	5.5	B/G	ON	SKIP OFF FREE			
70	SKIP OFF FREE				E-5(Hi)	175.25	5.5	B/G	ON	SKIP OFF FREE			
71	SKIP OFF FREE				SKIP OFF FREE				ON	SKIP OFF FREE			
｜	｜				｜					｜			
99	SKIP OFF FREE				SKIP OFF FREE				ON	SKIP OFF FREE			

29A-FX SYSTEM INITIAL SETTING AT FACTORY

SKIP	ON (POS 0), OFF (POS 1~99)	
Image system	AUTO	(All POS)
NICAM forcible FM	OFF	(All POS)
NICAM DS	M1	(All POS)
NICAM ST	STEREO	(All POS)
NICAM MONO	MONO	(All POS)
IGR forcible FM	OFF	(All POS)
IGR ST	STEREO	(All POS)
IGR DS	MAIN	(All POS)
Last POWER	ON	
TV/AV	TV	
Last POS	2	
FB POS	2	
SAVE	OFF	
AUTOSELECT	ON	
BLUEBACK	OFF	
DIGIT	2 DIGIT	
H/P MODE	AUTO	
H/P VOL	30	
BALANCE	0 (Center)	
VOLUME	0	
ON-TIMER POS	Not set.	
ON-TIMER VOL	Not set.	
Entertainment	MOVIE	

<AV menu : Entertainment>

Mode	STANDARD	MOVIE	MUSIC	NEWS
CONTRAST	50	60	45	45
COLOUR	0	+5	+5	0
BRIGHTNESS	0	0	+5	+5
TINT	0	0	0	0
SHARPNESS	0	0	0	0
WHITE-TEMP	0	+10 step to BLUE	0	0
YNR	OFF	OFF	ON [I]	OFF
S-BOOST	OFF	ON	OFF	ON
SPATIALIZER	OFF	ON [I] : +15	ON [I] : +10	OFF
TREBLE	0	+10	+12	0
BASS	0	+12	+5	0

<Factory setting and geomagnetic adjustment mode by model. (reference)>

Model name suffix	Earth magnetism		Background	X	Y
	V	H			
B (Hong Kong)	20,000	40,000	12,300°K	0.272	0.275
C (Singapore)	-10,000	40,000	12,300° K	0.272	0.275
G/F	30,000	20,000	12,300°K	0.272	0.275
G (Africa)	-10,000	40,000	12,300°K	0.272	0.275
X (Australia)	-50,000	20,000	12,300°K	0.272	0.275
H (Thailand)	10,000	40,000	12,300°K	0.272	0.275

29A-FX系出厂时的初始设定

跳跃(SKIP)	开(位置 0)，关(位置 1 ~ 99)	
视频系统	自动	(全位置)
NICAM强制FM	关	(全位置)
NICAM DS	M1	(全位置)
NICAM ST	立体声	(全位置)
NICAM MONO	单色画面	(全位置)
IGR强制FM	关	(全位置)
IGR ST	立体声	(全位置)
IGR DS	主画面	(全位置)
最后电源	开	
电视／音像	电视	
最后位置	1	
反馈位置	1	
保存	关	
自动选择	开	
蓝色背景	关	
DIGIT	2DIGIT	
H/P MODE	自动	
H/P VOL	30	
平衡	0(中心)	
音量	0	
ON-TIMERPOS	未设定	
ON-TIMERVOL	未设定	
ENTERTAINMENT	MOVIE	

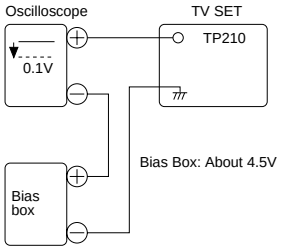
<各AV项目：文娱>

状态	STANDARD	MOVIE	MUSIC	NEWS
CONTRAST	50	60	45	45
COLOUR	0	+5	+5	0
BRIGHTNESS	0	0	+5	+5
TINT	0	0	0	0
SHARPNESS	0	0	0	0
WHITE-TEMP	0	至蓝色共有10阶	0	0
YNR	OFF	OFF	ON [I]	OFF
S-BOOST	OFF	ON	OFF	ON
SPATIALIZER	OFF	ON [I] : +15	ON [I] : +10	OFF
TREBLE	0	+10	+12	0
BASS	0	+12	+5	0

<对于各种型号所进行的出厂时的设定和地磁调整。（参考）>

机型名称尾标	地磁(nT)		背景	X	Y
	V	H			
B (Hong Kong)	20,000	40,000	12,300°K	0.272	0.275
C (Singapore)	-10,000	40,000	12,300° K	0.272	0.275
G/F	30,000	20,000	12,300°K	0.272	0.275
G (Africa)	-10,000	40,000	12,300°K	0.272	0.275
X (Australia)	-50,000	20,000	12,300°K	0.272	0.275
H (Thailand)	10,000	40,000	12,300°K	0.272	0.275

SERVICE ADJUSTMENT
PIF CHECK ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	RF-AGC Cut-in adjustment (Already preset.)	① E-12CH (PAL colour Bar) is received. Electric field intensity: 54 ±1dBμV (75 Open) ② Connect the oscilloscope to TP210 as shown below.  ③ Drop the input electric field intensity to 51 ± 1dBμV (75Ω Open). ④ Under the conditions 1 and 3, TP210 voltage does not vary. Raise the input signal electric field strength to 60 ± 1dBμV (75Ω Open), and verify that it is 0.1V or more lower than TP210 of 1 and 3. ⑤ Set the signal at 63 to 67dBμV, and make sure there is no noise. ⑥ Set the signal at 90 to 95dBμV, and make sure that there is no cross modulation beat.	**Note:** If the impedance converter of 50/75 is not used at the **electric field intensity** meter of 50Ω system, set 52 ± 1dBV for 54 ± 1dBμV (75Ω Open). Moreover, take care for the loss if the converter is used. * If there is not any problem when the several lots of the model which employs the relevant tuner is checked, apply the check of only ⑤ and ⑥.

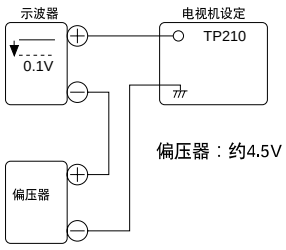
VIDEO LEVEL ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	VIDEO DET Level adjustment R220 (in the main unit)	① E-12CH B/G-PAL colour bar (100% white bar) is received. ② Adjust R220 to make the video output of the AV-OUT terminal become 1.0 ± 0.05Vp-p at the 75Ω terminator.	

SERVICE ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	Digital comb filter Y level adjustment R5467 (in the DID unit)	① Input PAL colour bar signal (100% white colour bar) of 1.0Vp-p at the 75Ω terminator from AV-IN terminal. (Input level 1.0 ± 0.05Vp-p) ② Connect the oscilloscope to YA (pin (7) of TP5462.) ③ Adjust R5467 to make the Y signal (100% white) of TP5462 become 2.0 ± 0.1Vp-p. * Verify that all are linearly amplified. (100% white area must not be collapsed.)	<Reference> When it is adjusted at E-12ch, take care for the voltage value. Adjustment value (TP5462) 2.0Vp-p

保养调整
PIF的确认调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节RF-AGC 接通信号 (预设)	① 接收 E-12 频道(彩条)信号。 电场强度：54 ± 1dB μ V(75 Ω电阻) ② 按以下所示，连接 TP210 示波器。  ③ 将输入电场强度调节到51 ± 1dB μ V(75 Ω电阻)。 ④ 以1的条件和3的测定值，使TP210电压不发生变化。 输入信号电场强度上升到60 ± 1dB μ V(75 Ω电阻)，并与1和3的TP210的电压进行比较，然后再检查是否达到 0.1V 以上的规定要求。 ⑤ 将信号调节到 63 ~ 67dB μ V，直至无噪声出现。 ⑥ 将信号调节到 90 ~ 95dB μ V，直至无交扰调制差拍出现。	注意： 在50 Ω类的电场强度计上，不使用50/75阻抗变换器时，应使54 ± 1dB μ V (75 Ω电阻)成为52 ± 1dB μ V。 另外，如果使用变换器时，应注意损耗状态。 * 若确认调谐器型号批量没有问题时，仅确认 ⑤、⑥ 项目即可。

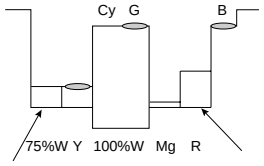
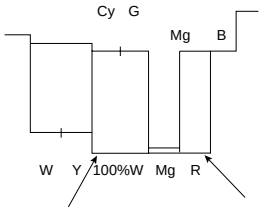
视频检波电平的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节视频检波电平：R220 (主装置内)	① 接收E-12频道的B/G-PAL制式彩条(100％白色彩条)信号。 ② 调节R220，用75 Ω终端，使AV-OUT端子的视频输出达到 1.0 ± 0.05Vp-p。	

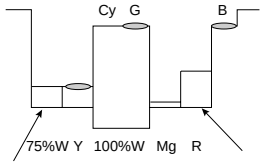
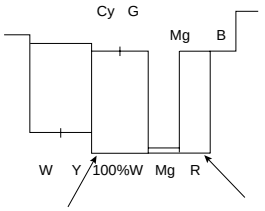
数字式梳形滤波器的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节数字式梳形滤波器的亮度信号电平：R5467 (DID装置内)	① 通过 AV-IN 端子，用75 Ω终端输入1.0Vp-p 的 PAL 制式彩条信号(100％白色彩条)。 (输入电平为1.0Vp-p ± 0.05Vp-p) ② 将示波器连接在 YA (引脚 7 的 TP5462)上。 ③ 调整R5467，使TP5462的亮度信号 (100％白色信号) 调节到 2.0 ± 0.1Vp-p。 ※ 确认整个直线性是否放大。(100％的白色部分处于正常状态)	<参考> 用E-12 频道进行调节时，应注意电压值。 调整值(TP5462)为 2.0Vp-p

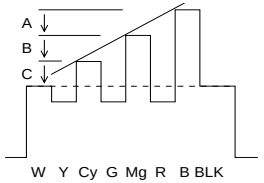
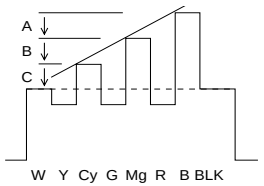
PAL CHROMA ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1-1	SUB-COLOUR (SUB COL) I²C bus adjustment (RF signal)	① E-12CH(PAL colour bar) is received. ② Make the picture normal with the remote controller. ③ Connect the oscilloscope to TP3802. (10:1 probe is used.) Range: 2V/Div. Sweep time : 20µsec/Div. ④ Set the "SUB COL" adjustment mode with the remote controller, and vary the sub colour data to make 75%W of the PAL colour bar and RED at the same level for adjustment shown in **Fig. 1**.	 **Fig. 1**
1-2	SUB-COLOUR (SUB COL DVD) I²C bus adjustment (DVD signal)	① DVD signal is received. (Half colour bar signal) ② Make the picture normal with the remote controller. ③ Connect the oscilloscope to TP3802. (10:1 probe is used.) Range : 2VA/Div. Sweep time: 20µsec/Div. ④ Set the "SUB COL DVD" adjustment mode with the remote controller, and vary the sub colour data to make 100%W of the colour bar and RED at the same level for adjustment shown in **Fig. 2**.	 **Fig. 2**

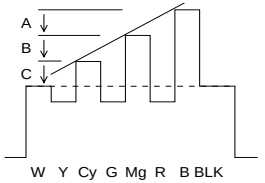
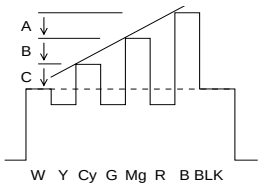
PAL制式色度信号的调整

编号	调整处	调整步骤和条件	波形以及其它
1-1	调节副彩色 (SUB COL) I²C总线控制 (RF信号)	① 接收 E-12 频道（PAL 制式彩条）信号。 ② 用遥控器将视频设定在标准状态。 ③ 将示波器连接在 TP3802 上。 （使用 10：1 的探针）。 测量范围：2V/ 段 扫频时间：20 微秒 / 段 ④ 用遥控器设定"SUB COL"调整状态后，按图 1 调节副彩色数据，使 PAL 制式彩条的 75％白色信号和红色信号呈相同水平。	 图1
1-2	调节副彩色 (SUB COL DVD) I²C总线控制 (DVD信号)	① 接收 DVD 信号（半调彩条信号）。 ② 用遥控器将视频设定在标准状态。 ③ 将示波器连接在 TP3802 上。 （使用 10：1 的探针） 测量范围：2V/ 段 扫频时间：20 微秒 / 段 ④ 用遥控器设定"SUB COL DVD"调整状态后，按图 2 调节副彩色数据，使彩条的 100％白色信号和红色信号呈相同水平。 （必须使用调节用信号发生器）	 图2

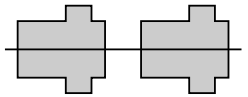
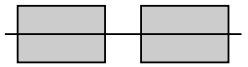
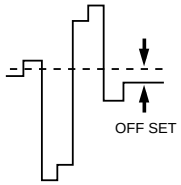
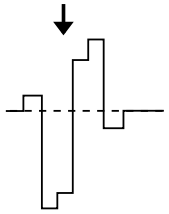
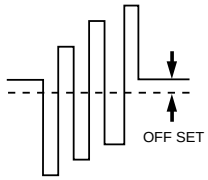
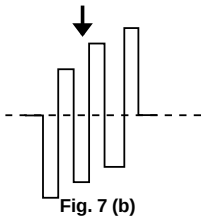
NTSC CHROMA ADJUSATMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1-1	SUB-TINT (SUB TINT) I²C bus adjustment (RF signal)	① Select the "SUB-TINT" adjustment mode (automatic Y cut) to receive JA-8CH(NTSC colour bar). ② Connect the oscilloscope to TP3803 (B-out). Range : 50mV/Div. (AC) Sweep time: 10µsec/Div. (10:1 probe is used.) ③ Vary the sub tint data to adjust the waveform to be gained as shown in **Fig. 3**. TP3803……(KY) 6 pin	 **Fig. 3** A=B=C
1-2	SUB-TINT (SUB TINT DVD) I²C bus adjustment (DVD signal)	① Select the "SUB-TINT DVD" adjustment mode (automatic Y cut) to receive the DVD colour bar signal. ② Connect the oscilloscope to TP3803. Range : 50mV/Div. (AC) Sweep time: 10µsec/Div. (10:1 probe is used.). ③ Vary the sub tint data to adjust the waveform to be gained as shown in **Fig. 4**. ④ Release the adjustment mode.	 **Fig. 4** A=B=C

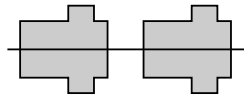
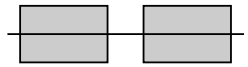
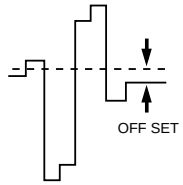
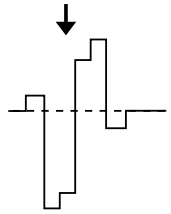
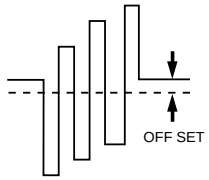
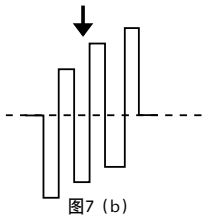
NTSC制式色度信号的调整

编号	调整处	调整步骤和条件	波形以及其它
1-1	调节副色调 (SUB TINT) I²C总线控制 (RF信号)	① 设定"SUB TINT"调整状态（自动截止亮度信号），于 JA-8 频道（NTSC 制式彩条）接收信号。 ② 将示波器连接在 TP3803 上（B-OUT）。 测量范围：50mV/ 段（交流） 扫频时间：10 微秒 / 段（使用 10：1 的探针） ③ 调节副色调数据，按图 3 所示，将波形调到规定的位置。 TP3803：(KY) 引脚 6	 图3 A=B=C
1-2	调节副色调 (SUB TINT DVD) I²C总线控制 (DVD信号)	① 设定"SUB TINT DVD"调整状态（自动截止亮度信号），于 DVD 彩条接收信号。 ② 将示波器连接在 TP3803 上。 测量范围：50mV/ 段（交流） 扫频时间：10 微秒 / 段（使用 10：1 的探针） ③ 调节副色调数据，按图 4 所示，将波形调到规定的位置。 TP3803：(KY) 引脚 6 ④ 解除调整状态。	 图4 A=B=C

SECAM CHROMA ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	BELL FILTER f0 (SCM BELL) I²C bus adjustment	① Receive Oi-5CH(SECAM colour bar). ② Select the "SCM BELL" fo adjustment mode. ③ Connect the oscilloscope to TP901 of main. (TP2901 in VCJ unit) Range : 10mV/Div. (AC) Sweep time: 20µsec/Div. (10:1 probe is used.) ④ Vary the bell filter data to align the waveform to be the nearest to that in **Fig. 5 (b)**. (Arrange the level to gain the whole balance.)	 **Fig. 5 (a)**  **Fig. 5 (b)** * To be at the same levbel.
2	SECAM black level R-Y/B-Y (R-Y and B-Y) I²C bus adjustment	① Receive Oi-5CH(SECAM colour bar). ② Select SECAM black level adjustment "R-Y" mode. ③ Connect the oscilloscope to TP802 (TP2804 in VCJ unit) of the main. Range: 10mV/Div. Sweep time: 20µsec/Div. (10:1 probe is used.) ④ Vary R-Y data to minimize the offset between the non-signal line and signal line as shown in **Fig. 6 (b)**. ⑤ Select SECAM black label adjustment "B-Y" mode. ⑥ Reconnect the oscilloscope to TP803 (TP2805 in VCJ unit) of the main. The conditions are the same as in Item (3). ⑦ Vary B-Y data to minimize the offset between the non-signal line and signal line as shown in **Fig. 7 (b)**.	 **Fig. 6 (a)**  **Fig. 6 (b)**  **Fig. 7 (a)**  **Fig. 7 (b)**

SECAM制式色度信号的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节贝尔滤波器f0 (SCM BELL) I²C总线控制	① 接收 Oi-5 频道(SECAM 制式彩条)信号。 ② 设定"SCM BELL" f0 调整状态。 ③ 将示波器连接在主 TP901 上。 (VCJ 装置内 TP2901) 测量范围：10mV/ 段 (交流) 扫频时间：20 微秒 / 段 (使用 10 : 1 的探针) ④ 调节贝尔滤波器数据，按图 5(b)所示，将波形调到近似于规定的位置。 (调节信号电平，以获得整个波形的平衡。)	 图5 (a)  图5 (b) ※ 调节信号电平
2	调节SECAM制式黑色信号电平的红色亮度/蓝色亮度 (R-Y 和 B-Y) I²C总线控制	① 接收 Oi-5 频道(SECAM 制式彩条)信号。 ② 调节 SECAM 制式黑色信号电平，设定 "R-Y" 状态。 ③ 将示波器连接在主 TP802 上。(VCJ 装置内 TP2804) 测量范围：10mV/ 段(交流) 扫频时间：20 微秒 / 段 (使用 10 : 1 的探针) ④ 调节红色亮度数据，(如图 6 所示(b)) 使无信号线条和信号线条之间的误差值调到最小位置。 ⑤ 调节 SECAM 制式黑色信号电平，设定 "B-Y" 状态。 ⑥ 重新将示波器连接在主 TP803 上。(VCJ 装置内 TP2805)按第 3 项相同的条件进行操作。 ⑦ 调节蓝色亮度数据，(如图 7 所示(b)) 使无信号线条和信号线条之间的误差值调到最小位置。	 图6 (a)  图6 (b)  图7 (a)  图7 (b)

SOUND LEVEL ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	SUB SOUND (SUB VOL) (I^2C bus adjustment)	① Receive E-12ch (PAL colour bar). Signal content: 400Hz 100% Mod. ② Connect the probe of the meter to (SI) connector. (See **Note**) ③ Select "SUB VOL" in the service mode. ④ Adjust the sub-sound data to make the meter indicate 8.5Vrms (at L-ch). Adjustment value : 8.5 ± 0.4Vrms	**Note:** * SPATIALIZER ..... OFF * S-Normal state * S-VOL ..... Max * S-BOOSTER ..... OFF
2	Noise mute check	① Receive E-12CH (PAL colour bar). ② Maximize the sound volume to verify that the sound is output from the speaker. Then, set the non-signal state. ③ At this time, verify that the audio mute operates. ④ After checking the operation, set the sound volume to be the minimum.	

SIF (NICAM/IGR) ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	VCO COIL T2300 (in the NICAM unit)	① Receive E-69CH (PAL colour bar). (Set the receiving frequency at AFT OFF Ex. E-69=855.25 MHz.) ② Connect the digital voltmeter to TP301 (in the main unit). ③ Verify that it is turned counterclockwise to 0V and clockwise to 5V, and adjust T2300 to make the DC voltage of TP2300 become 2.5 ± 0.1V in the range. <Single-unit adjustment> - For your Reference. Vcc 5 ± 0.1V IF input frequency 38.9MHz ± 10kHz Control it under these conditions. Adjust T2300 to make the DC voltage of TP2300 (in the NICAM unit) become 2.5 ± 0.1V. After single-unit adjustment, check the practical setup. Align the receiving frequency to the select channel frequency. (AFT OFF) The checked TP301 in the main unit voltage must be 2.5 ± 1.0V. (Take care that ±1.0 is considered for the Vcc difference between the single unit and unit, Fo difference and so on, but is not the adjustment precision.)	

声音电平的调整

编号	调整处	调整步骤和条件	波形以及其它
1	副声音 (SUB VOL) (I^2C总线控制)	① 接收 E-12 频道(PAL 制式彩条)信号。 信号内容：400Hz 100％调制 ② 将测定器（注）的探针连接在 SI 连接插头上。 ③ 在保养调整状态上选择 "SUB VOL"。 ④ 调节副声音数据，使测定器规定值达到 8.5Vrms（左声道）。 调整值：8.5 ± 0.4Vrms	注意： * SPATIALIZER ..... 关 * S-标准状态 * S-VOL ..... 最大 * S-BOOSTER..... 关
2	确认无噪声	① 接收 E-12 频道(PAL 制式彩条)信号。 ② 将音量旋至最大，检查是否从扬声器发出声音。然后，再设定为无信号状态。 ③ 此时，应确认声音静噪功能是否动作。 ④ 确认启动后，再将音量设定在最小位置。	

SIF（NICAM/IGR)调整

编号	调整处	调整步骤和条件	波形以及其它
1	VCO COIL：T2300 (NICAM装置内)	① 接收 E-69 频道(PAL 制式彩条)信号。 （设定 AFT OFF Ex.E-69=855.25MHz 接收频率信号） ② 将数字电压表连接在 TP301(主装置内)上。 ③ 调整T2300。先确认向左旋转为0V，向右旋转为5V 后，再将其之间的TP2300的直流电压调节到 2.5 ± 0.1V。 <调整装置部件时> - 供参考 Vcc 5 ± 0.1V IF输入频率控制在38.9MHz ± 10kHz 在此条件下进行控制 调节T2300，使TP2300(NICAM装置内)直流电压达到2.5 ± 0.1V的规定值。 调整装置部件后确认安装状况 以TP301(主装置内)测定 先在选台频率上选择接收频率(AFT OFF)，然后确认电压是否为2.5 ± 1.0V。 (± 1.0是考虑到部件和装置之间 Vcc 的误差、Fo 的误差等，并非调整时的精度，请注意。)	

CUT OFF, BKGD ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	CRT CUT OFF (CUT OFF BKGD) Service mode I^2C bus data adjustment	① Receive E-5CH (Monoscope pattern). ② Set P-NORM with the remote controller. ③ Turn on the service SW, and select the "CUT OFF BKGD" mode. ④ Set the screen VR to 0/10. ⑤ Press "▷◁" key of the remote controller to select the horizontal centering mode. ⑨ Turn the screen VR clockwise, and adjust the first lighting horizontal centering raster to slightly light. ⑩ Adjust the CUT OFF data of two other colours, and coarsely adjust the horizontal centering to become white. (**Note**) ⑪ Turn the screen VR in the opposite direction to the point where the horizontal centering raster goes out. **Note:** Apply the adjustment after aging with the beam current 1,500 ± 50μA or more for 30 minutes or more (On the monocolour screen of white or green) ⑫ Press "-/--" key of the remote controller to select the normal mode.	**Note:** R CUT OFF UP "1" KEY DOWN "4" KEY G CUT OFF UP "2" KEY DOWN "5" KEY B CUT OFF UP "3" KEY DOWN "6" KEY Data up/down is possible with the above comparison.
2-1	White balance background (CUT OFF BKGD) I^2C bus adjustment (RF Signal)	① E-5CH (Monoscope pattern) is received. ② Set P-NOM with the remote controller. ③ Connect the beam ammeter between TP1601 and TP1602. ④ Coarsely adjust the beam current to approx. 1.8 mA with R1633 (sub-contrast VR). ⑤ Receive the window pattern with AV input. (PAL burst is generated with the signal generator.) Select "CUT OFF BKGD mode". ⑥ With the data of G-drive and B-drive, adjust the colour temperature 12,300°K of the white peak to white. ⑦ Adjust the right dark area of the window to 12,300°K with R-cut off, G-cut off and B-cut off. ⑧ Readjust the colour temperature at the white peak. ⑨ Check 12,300°K at the low white. **Note:** Apply this adjustment after aging with the beam current 1,500 ± 50μA or more for 30 minutes or more. (On the white or green monocolour screen) * The colour temperature is based on the shipment initial setting table.	* 12300 °K X : 0.272 Y : 0.275 (With Minolta colour analyzer CA-100) **Note:** G-DRIVE UP "7" KEY DOWN "⇄" KEY B-DRIVE UP "8" KEY DOWN "0" KEY Data up/down is possible with the above comparison. * Apply R/G/B-CUT and B/G-DRIVE after verifying that they are at the initial values.
2-2	White balance background (CUT OFF DVD BKGD) I^2C BUS adjustment (DVD signal)	① The window pattern is received with DVD signal (component signal). ② Apply the adjustment in the same step as 2-1⑤ and subsequence above. (12,300°K) (G-DRIVE, B-DRIVE, R-CUTOFF, G-CUTOFF and B-CUTOFF) Apply the adjustment after the end of 2-1.	**Note:** Use the window pattern of the signal generator for adjustment.

截止BKGD的调整

编号	调整处	调整步骤和条件	波形以及其它
1	截止阴极射线管 (CRT) (CUT OFF BKGD) 调节保养调整状态时的 I^2C总线控制数据	① 接收 E-5 频道(单象管测试图)信号。 ② 用遥控器设定为 P-NORM 状态。 ③ 接通保养调整开关，选择 "CUT OFF BKGD" 状态。 ④ 设定屏蔽 VR 0/10。 ⑤ 按遥控器的 "▷◁" 键，设定横一状态。 ⑨ 顺时针方向旋转屏蔽 VR，使最初发色的横一光栅调到微光线。 ⑩ 调节其它两色的截止数据，粗调横一光栅，使其呈白色信号。注) ⑪ 逆时针方向旋转屏蔽 VR，使横一光栅呈消失点状态。 注：先用1,500 ± 50 μA 以上电子束电流预热 30 分钟以上后再进行该调整。 (用白色信号或绿色信号的画面) ⑫ 按遥控器的 "-/--" 键，设定标准状态。	注： 红色截止信号 (上移)按 "1" 键 (下移)按 "4" 键 绿色截止信号 (上移)按 "2" 键 (下移)按 "5" 键 蓝色截止信号 (上移)按 "3" 键 (下移)按 "6" 键 按以上的对比来调节数据的上移／下移。
2-1	调节白色平衡信号的背景 (CUT OFF BKGD) I2C总线控制 (RF信号)	① 接收 E-5 频道(单象管测试图)信号。 ② 用遥控器设定为 P-NORM 状态。 ③ 在 TP1601 和 TP1602 之间连接电子束电流计。 ④ 粗调 R1633(副对比度 VR)，使电子束电流达到约 1.8mA。 ⑤ 输入 AV 信号，接收窗形图案。 (通过信号发生器调节 PAL 制式信号(附带脉冲)窗形图案)。设定 "CUT OFF BKGD" 状态。 ⑥ 调节绿色激励、蓝色激励的数据，使白色峰值的色温为 12,300°K 的白色信号。 ⑦ 调节红色截止、绿色截止、蓝色截止的信号，使窗形右侧的暗部为 12,300°K。 ⑧ 重调白色峰值的色温。 ⑨ 确认低白色信号为 12,300°K。 注：先用 1,500 ± 50 μA 以上电子束电流预热 30 分钟以上后再进行该调整。 (用白色信号或绿色信号的画面) ※ 有关色温，参照出厂时的初始设定一览表	※ 12300° K X：0.272 Y：0.275 (使用美能达色温计 CA-100) 注： 绿色激励信号 (上移)按 "7" 键 (下移)按 "⇄" 键 蓝色激励信号 (上移)按 "8" 键 (下移)按 "0" 键 按以上的对比来调节数据的上移／下移。 * 在确定它们处于初始值后，再使用红色／绿色／蓝色截止和蓝色／绿色激励信号。
2-2	调节白色平衡信号的背景 (CUT OFF DVD BKGD) I^2C总线控制 (DVD信号)	① 通过DVD信号(系统信号)来接收窗形图案信号。 ⑤ 按照上述 2-1 的 5 以后项目进行调节。 (12,300°K) (绿色激励、红色激励、红色截止、绿色截止、蓝色截止) 2-1项结束后进行该调整。	注： 使用调整用信号发生器的窗形图案信号。

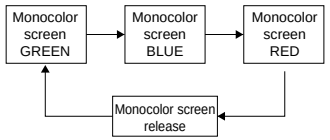
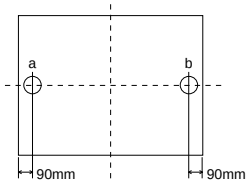
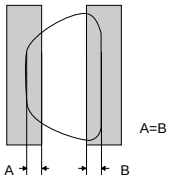
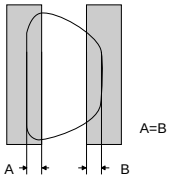
SUB CONT SUB-BRIGHT ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
3	MAX BEAM R1633 (in the power unit)	① Receive E-5CH (Monoscope pattern) with standard mode. ② Make the image normal with the remote controller. ③ Connect the beam ammeter between TP1601 and TP1602. Ammeter full scale: 3mA range TP1602 is connected at the - side of the ammeter. TP1601 is connected at the + side of the ammeter. ④ Adjust the beam current to 1.8mA ± 20μA with R1633 (sub-contrast VR). **Note:** Apply the adjustment after aging with the beam current 1,500 ± 50μA or more for 30 minutes or more. (On the white or green monocolour screen.)	
4-1	Sub-contrast (SUB CONT.) I²C bus adjustment (RF signal)	① Receive the window pattern with AV input. ② Make the picture normal with the remote controller. ③ Select the "SUB-CONTRAST" adjustment mode with the remote controller, and adjust 50% white to 150 ± 5cd.	**Note :** Use "Y" of Minolta colour analyzer CA-100. **Note :** Us the PAL window pattern of the signal generator for adjustment. (PAL and colour burst are provided.)
4-2	Sub-contrast (SUB CONT. DVD) I²C bus adjustment (DVD signal)	① Select the DVD mode. ② Receive the signal of the DVD signal generator. (Component signal) (Window pattern) ③ Make the picture normal with the remote controller. ④ Select the "SUB-CONTRAST" adjustment mode (DVD) with the remote controller, and adjust 50% white to 150 ± 5cd.	
5-1	Sub-bright (SUB BRI) I²C bus adjustment (RF signal)	① Receive the window pattern with AV input. ② Make the picture normal with the remote controller. ③ Select the "SUB-BRIGHT" adjustment mode with the remote controller, and adjust the right dark white area of the window pattern to 2.7 ± 0.3cd.	Reference * When E-2CH (Crosshatch pattern) or equivalent signal is received, ① Make the picture normal with the remote controller. ② Adjust the 3rd (1 thru 5 from the left) black of the window pattern to sink. CUTOFF POINT
5-2	Sub-bright (SUB BRI DVD) I²C bus adjustment (DVD signal)	① Select the DVD mode. ② Receive the signal of the DVD signal generator. (Component signal) (Window pattern) ③ Make the picture normal with the remote controller. ④ Select the "SUB-BRIGHT" adjustment mode (DVD), and adjust the right dark white area of the window pattern to 2.7 ± 0.3cd of the window pattern.	

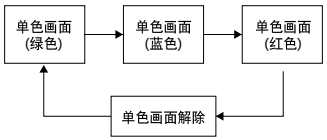
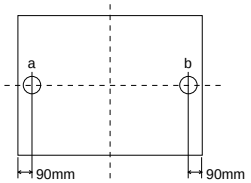
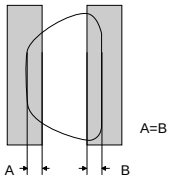
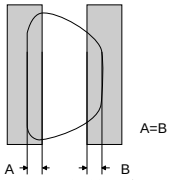
副对比度和度亮度的调整

编号	调整处	调整步骤和条件	波形以及其它
3	MAX BEAM： R1633 （电源装置内）	① 接收 E-5 频道（单象管测试图）信号标准状态内。 ② 用遥控器设定视频标准状态。 ③ 在 TP1601 和 TP1602 之间连接电子束电流计。 电流计全标度：3mA 波段 TP1602 为电流计的 - 侧 TP1601 为电流计的 + 侧 ④ 调节 R1633（副对比度 VR），使电子束电流达到 1.8mA ± 20 μ A。 注：先用1,500 ± 50 μ A以上电子束电流预热30分钟以上后再进行该调整。 （用白色信号或绿色信号的画面）	
4-1	调节副对比度的 （SUB CONT.） I²C总线控制 （RF信号）	① 输入 AV 并接收窗形图案信号。 ② 用遥控器设定视频标准状态。 ③ 用遥控器设定"SUB-CONTRAST" 调整状态，使 50％白色信号调节到 150 ± 5cd。	注：使用美能达色温计 CA-100 的 "Y"。 注：使用调整用信号发生器的窗形图案信号。 （附带 PAL 制式彩色同步信号）
4-2	调节副对比度的 （SUB CONT. DVD） I²C总线控制 （DVD 信号）	① 设定 DVD 调整状态。 ② 接收 DVD 信号发生器的信号。（系统信号） （窗形图案信号） ③ 用遥控器设定视频标准状态。 ④ 用遥控器设定"SUB-CONTRAST" 调整状态 （DVD 信号），使 50％白色信号调节到 150 ± 5cd。	
5-1	调节副亮度的 （SUB BRI） I²C总线控制 （RF信号）	① 输入 AV 并接收窗形图案信号。 ② 用遥控器设定视频标准状态。 ③ 用遥控器设定"SUB-BRIGHT" 调整状态，使窗形图案的右侧暗白部分调节到 2.7 ± 0.3cd。	参考 ※ 接收E-2频道（棋盘状图案）同等信号。 ① 用遥控器设定视频标准状态。 ② 使窗形图案的第 3 个（从左起 1 → 5）黑色部分调节为沉点。 截止点
5-2	调节副亮度的 （SUB BRI DVD） I²C总线控制 （DVD信号）	① 设定 DVD 调整状态。 ② 接收 DVD 信号发生器的信号。（系统信号） （窗形图案信号） ③ 用遥控器设定视频标准状态。 ④ 用遥控器设定"SUB-BRIGHT" 调整状态，使窗形图案的右侧暗白部分调节到 2.7 ± 0.3cd。	

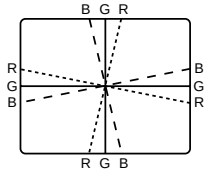
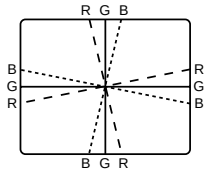
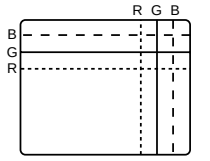
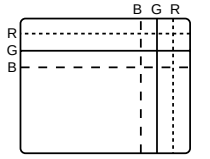
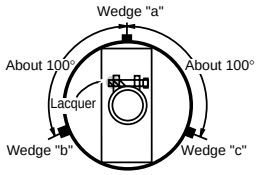
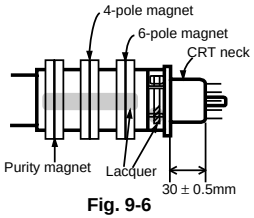
PURITY ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	Purity adjustment	① Select the green monocolour screen with the remote controller, and set the beam current of 1.4 mA with the contrast control. ② Sufficiently degauss CRT with the degausing coil. **Note:** For the adjustable magnetic field, refer to the job instruction sheet. The adjustable magnetic field is as shown page 5. ③ The purity magnet must be previously set at the 0 magnetic field, and the convergence must be adjusted to be rough. With P-MG, adjust it to the center - rank A. ④ Observing the points a and b of **Fig. 8-1** with the microscope, move DY fore and aft to set the landing at Rank A. If the a/b balance is poor, compensate it to the center "Rank AB". ⑤ Align it to zero, keeping the raster rotation in the east direction. ⑥ Tighten the deflection coil fastening screws. Tightening torque: 108 ± 20N (11 ± 2 kgf) ⑦ Checking the CRT corner area, bond the magnetic sheet to set the landing at Rank A for compensation. **Note:** Apply the adjustment after aging with the beam current 1,500 ± 50μA or more for 30 minutes or more. **Note:** Select the service mode, and press the monocolour key of R/C for process, and the monocolour screen (green) will be selected. * Every push of the monocolour key changes the screen as follows. 	 **Fig. 8-1**  **Fig. 8-2: Rank A CRT**  **Fig. 8-3: Rank A CRT** * Continuously press the monocolour key 1 second or more, and the monocolour mode will be selected without the service mode. Even with TEXT key or "R. G. Cy" key, it can be directly switched to each monocolour screen.
2	Peripheral purity adjustment	① After YPB adjustment of DY, receive the cross-hatch, and coarsely adjust Yh and Yv by swinging DY. (Fix it with the wedge within 30 seconds.) ② In the monocolour screen (green), set the beam current at 1,400μA. ③ In Bh=0 and Bv= Refer to the factory setting and geomagnetic adjustment by model (ref.), verify that the landing in the corner area is practically at the rank A. If it is deviated, bond the Pu compensation Mg for adjustment.	**Note:** Set to natural magnetic field.

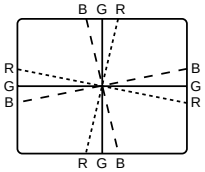
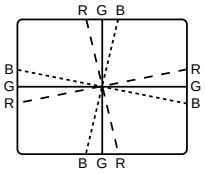
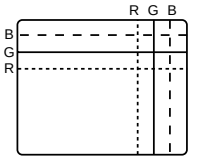
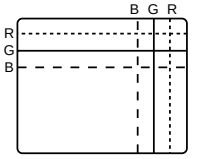
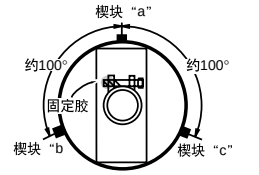
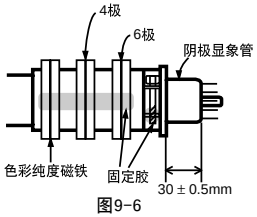
色彩纯度的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节色彩纯度	① 用遥控器显示绿色画面，然后，用对比度控制设定电子束电流为1.4mA。 ② 用消磁线圈将CRT进行充分消磁。 注意： 有关调整磁场，请参照生产连络单。 有关调整磁场如下所示(参照第5页) ③ 事先将色彩纯度调节磁铁调整为0，并将聚焦进行粗调。 用P-MG调节为中间的A级。 ④ 转动DY，用放大镜观察图8-1位置的"a"和"b"，使着屏点(A级)为30μm。 ④ 如果"a"和"b"位置不平衡时，将画面补正到中间"AB级"。 ⑤ 调节光栅转向朝东为0。 ⑥ 拧紧偏转线圈的紧固螺丝。 紧固扭矩：108 ± 20N(11 ± 2Kgf) ⑦ 确认CRT角部，粘贴磁铁片，使着屏点达到A级。 注意： 先用1,500 ± 50μA以上电子束电流预热30分钟以上后再进行该调整。 注意： 进入保养调整状态后，按下工序用R/C的单色键，就会变为单色(绿色)画面。 ※ 每按下一次单色键，即如下顺序变化： 	 图8-1  图 8-2 A级阴极射线管(CRT)右侧  图 8-3 A级阴极射线管(CRT)右侧 ※ 持续按下单色键1秒钟以上，即使未处于保养调整状态也可变为单色状态。 即使是测试键、"红/绿/灰"键，也可以直接转换为各单色画面。
2	调节周边彩色纯度	① 调节DY的YPB后，接收棋盘状图案信号，以DY转向粗调Yh和Yv。(在30秒钟以内用楔块固定之) ② 在单色画面(绿色)上设定电子束电流为1,400μA。 ③ 以Bh=0、Bv="型号的出厂设定和地磁调节，确认角部的着屏点是否符合A级，如果不符合规定要求时，用粘贴Pu和补正Mg来进行调节。	注：设定至自然磁场

CONVERGENCE ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	Convergence adjustment (Apply this after purity adjustment.) Apply this after focus adjustment.	① Receive E-2CH (Crosshatch pattern). ② With the remote controller, make it normal. (Static convergence adjustment) ① Overlap blue and red with the open-/closing angle and rotation of the 4-pole magnet. ② Overlap green on blue and red with the open-/closing angle and rotation of the 6-pole magnet. (Dynamic convergence adjustment) ① Adjust the convergence of the peripheral area of the screen in the following procedure. a) Put the wedge in Fig.-1: "a" to swing the deflecting coil upward for alignment. b) Put the wedge in Fig.-2: "b" and "c" to swing the deflecting coil downward for alignment. c) Deeply put the wedge in Fig.-3: "c" to swing the deflecting coil rightward for alignment. d) Deeply put the wedge in Fig.-3: "d" to swing the deflecting coil rightward for alignment. ② Bond each wedge on CRT, and bond the glass tape on it. ③ Coat the lacquer paint on the DY fastening screws, the magnetic unit (purity 4-pole and 6-pole) and the magnetic unit fastening screws. (Check) If the first red and blue lines on the outer left and right circumferences are poor in the left and right balance, adjust the left and right balance with 4-polefine adjustment.	 **Fig. 9-1**  **Fig. 9-2**  **Fig. 9-3**  **Fig. 9-4**  **Fig. 9-5**  **Fig. 9-6**

聚焦的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节聚焦 (进行该调整之前，应先进行色彩纯度的调整。调节焦点后，再进行该调整)	① 接收 E-2 频道(棋盘状图案)信号。 ② 用遥控器设定标准状态。 (静止聚焦的调整) ① 调节 4 极磁铁的开闭角度以及旋转，使蓝色和红色重叠。 ② 调节 6 极磁铁的开闭角度以及旋转，使绿色与蓝色和红色重叠。 (动态聚焦的调整) ① 按下述要领调节画面周边部的聚焦。 a) 图 9-1：将楔块插入 "a" 里，并向上摆动偏转线圈来进行调节。 b) 图 9-2：将楔块插入 "b" 和 "c" 里，并向下摆动偏转线圈来进行调节。 c) 图 9-3：将楔块 "c" 向深处插入，并向右摆动偏转线圈来进行调节。 d) 图 9-4：将楔块 "d" 向深处插入，并向左摆动偏转线圈来进行调节。 ② 将CRT粘贴在各楔块上，并在其上面粘贴玻璃胶带。 ③ 在 DY 固定螺丝、磁铁装置(色彩纯度磁铁 4 极、6 极)、磁铁装置固定螺丝上涂上固定胶。 (确认) 如果左右最外圈的第 1 条(红色和蓝色的左右)平衡不佳时，用 4 极 Mg 微调来调整左右平衡。	 图9-1  图9-2  图9-3  图9-4  图9-5  图9-6

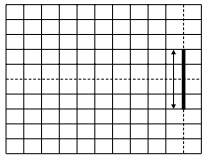
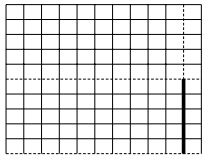
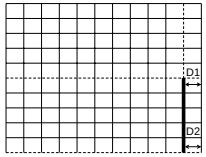
FOCUS ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	Dynamic focus adjustment L1680 (in the power unit)	① Receive E-5CH (Monoscope Pattern). ② With the remote controller, make it normal. ③ Connect the synchroscope to the eight pins of T1680. ④ Turning L1680, adjust the amplitude of the horizontal frequency waveform to 600Vp-p. 	
2	Focus adjustment FBT FOCUS-VR (in the power unit)	① Receive E-5CH (Monoscope Pattern). ② With the remote controller, make the image normal. ③ Adjust the focus VR-1 to make the horizontal line around character “325” at left-top position as fine as possible. ④ Adjust the focus VR-2 to make the vertical line around character “325” at left-top position as fine as possible. ⑤ Repeat Items 3 and 4 once again, adjust the focus.	

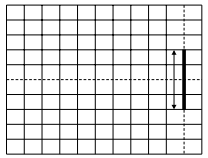
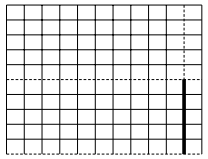
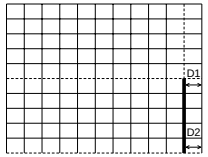
焦点的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节动态聚焦：L1680 (电源装置内)	① 接收 E-5 频道(单象管测试图)信号。 ② 用遥控器设定标准状态。 ③ 将示波器连接在 T1680 的引脚 8 上。 ④ 旋转 L1680，使水平周期波形的振幅调为 600Vp-p。 	
2	调节聚焦 FBT 焦点-VR (电源装置内)	① 接收 E-5 频道(单象管测试图)信号。 ② 用遥控器设定标准状态。 ③ 调节聚焦 VR-1,使左上位置处的"325"文字周围的水平线呈现最清晰程度。 ④ 调节聚焦 VR-2,使左上位置处的"325"文字周围的垂直线呈现最清晰程度。 ⑤ 重复操作 3 和 4 步骤而进行聚焦的调整。	

HORIZONTAL/VERTICAL CIRCUIT ADJUSTMENT

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	Main screen adjustment		
	V-AMP50	Adjust the overscan to 8.5%. (E-5)	
	V-LINE50	Adjust the linearity to the best.	The receiving channel in ( ) are the following signals. (E-2): Crosshatch (50Hz) (E-5): Monoscope (50Hz)
	V-S-CORR50	Already preset. (Adjust this unless the linearity is achieved.)	
	V-CENT50	Align the center of the screen to the geometric center of CRT. (E-5)	
	H-CENT50	Align the center of the screen to the geometric center of CRT. (E-5)	
	H-SIZE50	Adjust the overscan to 8.5%. (E-5)	
	E/W-PAR	Look at the first vertical line from the right end of the crosshatch pattern. Adjust the data so that the four cells just on the left of this vertical line be straight down. (**Fig. 10**) (E-2)	 **Fig. 10**
	EW-COR	Look at the first vertical line from the right end of the crosshatch pattern. Adjust the data so that the lower half of this vertical line be straight down. (**Fig. 11**) (E-2)	 **Fig. 11**
	TRAPE	Look at the first vertical line from the right end of the crosshatch pattern. Adjust the data so that the distance D1 (between the first line's center and the screen edge) and the distance D2 (between the first line's bottom and the screen edge) be the same. (**Fig. 12**) (E-2)	 **Fig. 12**
	V-COM	Already preset. (Adjust if the quality is specially poor.)	
	H-COM	Already preset. (Adjust if the quality is specially poor.)	
	V-BIAS	Already preset. (Adjust if the quality is specially poor.)	
	V- COR	Already preset. (Adjust if the quality is specially poor.)	
	OTHER	On the items of V-AMP60, V-LINE60, V S-CORR60, V-CENT60, H-CENT60 and H-SIZE60, the compensation data is automatically input if the 50Hz mode adjustment is done.	However, if it is largely deviated when it is checked in the 60Hz mode, readjust it in the 60Hz mode.
	I^2C BUS adjustment		

水平、垂直同步电路的调整

编号	调整处	调整步骤和条件	波形以及其它
1	调节主画面		
	V-AMP50	调节 V-AMP50，使过扫描调到 8.5％。(E-5)	( ) 内的接收频道为以下信号内容： (E-2)：棋盘状图案信号(50Hz) (E-5)：单象管测试图信号(50Hz)
	V-LINE50	调节 V-LINE50，使线性度调到最佳状态。	
	V-S-CORR50	预设完毕(无法调节线性度时进行调整)	
	V-CENT50	调节V-CENT50，使画面中心和CRT的几何中心对齐。(E-5)	
	H-CENT50	调节H-CENT50，使画面中心和CRT的几何中心对齐。(E-5)	
	H-SIZE50	调节 H-SIZE50，使过扫描调到 8.5％。(E-5)	 图10
	E/W-PAR	通过拉直棋盘格测试图案右端的第一条垂直线的中央部分进行调整 （见图 10)(E-2)	
	EW-COR	通过拉直棋盘格测试图案右端的第一条垂直线的下面部分进行调整 （见图 11)(E-2)	 图11
	TRAPE	进行调整，使棋盘格测试图案右端的第一条垂直线的 D 1 (中央部分的第一条线与画面端之间的距离) 与 D 2 (下面部分的第一条线与画面端之间的距离) 达到相等距离（见图 12)(E-2)	
	V-COM	预设完毕(无法调节线性度时进行调整)	
	R-COM	预设完毕(无法调节线性度时进行调整)	
	V-BIAS	预设完毕(无法调节线性度时进行调整)	
	V-COR	预设完毕(无法调节线性度时进行调整)	 图12
	其它	有关垂直振幅 60(V-AMP60)、垂直线性 60(V-LINE60)、垂直 S-相位60(V S-CORR60)、垂直中心60(V-CENT60)、水平中心60(H-CENT60)、水平尺寸60(H-SIZE60)的项目，只要用50Hz调整状态进行调节，就可自动输入补正数据。	但是，如果确认60Hz调整状态时，发现误差大的情况下，应在 60Hz 调整状态重新进行调节。
	调节I^2C总线控制		

A/V INPUT/OUTPUT CHECK

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	Video output check Audio output check	① Receive E-12CH colour bar (colour bar audio 400Hz 100% MOD of 100% white). ② The video output must be within the specified range of 1.0Vp-p ± 3dB at the 75 ter minator. ③ The audio output must be within the specified range of 1.76Vp-p ± 3dB at the 10k ter minator.	
2	Video input check Audio input check S-terminal input check	① The mode must be switched in the cycle of TV → AV1 → AV2 → AV3 → DVD → TV with TV/AV key of R/C, and the picture and sound which correspond to each input/output terminals must be properly output. * Here, DVD is applied for the input alone. ② When the connector is inserted into the S-video input terminal on AV1, it must be switched from AV to S-video and must be properly operated. Moreover, check "AV1-S" of OSD. ③ When the connector is inserted into the S-video input terminal on AV3, it must be switched from AV to S-video and must be properly operated. Moreover, check "AV3-S" of OSD.	
3	AV3 automatic discrimination check	① Receive TV with R/C. ② When the signal is input to the video input terminal of AV3, it is automatically switched to AV3. ③ When the signal is input to the S-video input terminal of AV3, it is automatically switched to AV3-S. * Setting: Auto select in the feature menu — ON	

A/V输出、输入的确认

编号	调整处	调整步骤和条件	波形以及其它
1	检查输出视频 检查输出音频	① 接收 E-12 频道彩条(100％白色信号彩条声音、400Hz 100％调制)信号。 ② 用75Ω终端，使视频输出达到1.0Vp-p ± 3dB的规定值。 ① 用10kΩ终端，使音频输出达到1.76Vp-p ± 3dB的规定值。	
2	检查输入视频 检查输入音频 检查输入S-端子	① 按下R/C的TV/AV键，将顺序转换为TV → AV1 → AV2 → AV3 → DVD → TV 调整状态，根据各输出、输入端子呼出相应的图象及声音项目。 ※ 但是，DVD 仅限于输入 ② 设定 AV1时，在 S-视频输入端子插入连接插头时，将AV 转换为 S-视频，此时，应确认是否正常动作和 OSD 的"AV1-S"画面。 ③ 设定 AV3时，在 S-视频输入端子插入连接插头时，将AV 转换为 S-视频，此时，应确认是否正检查 AV3 自动识别功能。	
3	常动作和OSD的"AV3-S"画面。	① 通过 R/C 接收 TV 信号。 ② 在AV3的视频输入端子上输入信号时，便自动转换为 AV3。 ③ 在 AV3 的 S-视频输入端子上输入信号时，便自动转换为 AV3-S。 ※ 设定：在特殊功能内自动选择为开状态。	

FUNCTION OPERATION CHECK (1) (VIDEO AND AUDIO)

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	CONTRAST	① Receive E-5CH. ② Select CONTRAST by picture menu. ③ The contrast must be varied with UP/DOWN.	
2	COLOUR	① Receive J-13CH. ② Select COLOUR by picture menu. ③ The colouring must be varied with UP/DOWN. (Any colour must not remain in MIN.)	
3	BRIGHTNESS	① Receive E-5CH. ② Select BRIGHT by picture menu. ③ The black level must be varied with UP/DOWN.	
4	TINT	① Receive J-13CH. (NTSC colour bar) ② Select TINT by picture menu. ③ With UP/DOWN, the tint must be varied toward green for UP, and toward red for DOWN.	
5	NORMAL	① If NORMAL key is pressed when the mode is displayed in P/S-mode, the displayed content alone must be set to be normal. (At standard mode.) CONTRAST : 50 COLOUR : CENTER BRIGHTNESS : CENTER TINT : CENTER SHARPNESS : CENTER	* If it is not displayed, CONTRAST, COLOUR, BRIGHT, TINT and SHARPNESS must be all set to be normal.
6	SHARPNESS	① Receive E-5CH. ② Select SHARPNESS by picture mode. ① The screen quality must be varied with UP/DOWN.	
7	CH sign display colour	① All CH (0 thru 99) sign must be displayed in green.	* If the TV is factory setting.
8	TREBLE	① Receive E-5CH. ② Select TREBLE by sound menu. ③ The high band must be varied with UP/DOWN.	
9	BASS	① Receive E-5CH. ② Select BASS by sound menu. ③ The low band must be varied with UP/DOWN.	
10	BALANCE	① Receive E-5CH. ② Select BALANCE by sound menu. ③ Verify that the left/right balance must be varied with UP/DOWN.	

检查电路功能(1)(图象和声音)

编号	调整处	调整步骤和条件	波形以及其它
1	对比度	① 接收 E-5 频道信号。 ② 通过图象菜单，选择对比度。 ③ 按下UP/DOWN键，使对比度发生相应的变化。	
2	彩色	① 接收 J-13 频道信号。 ② 通过图象菜单，选择彩色。 ③ 按下 UP/DOWN 键，使彩色发生相应的变化。(于最小位置时应处于无色状态)	
3	亮度	① 接收 E-5 频道信号。 ② 通过图象菜单，选择亮度。 ③ 按下 UP/DOWN 键，使黑色水平发生相应的变化。	
4	色调	① 接收 J-13 频道信号。(NTSC 彩条) ② 通过图象菜单，选择色调。 ③ 按下UP键，使色调为绿色；按下DOWN键，使色调为红色。	
5	标准图象	① 通过 P/S-MODE 显示图象标准状态时，按下 NORMAL.(标准)键，使仅限显示中的内容为标准状态的设定。(在标准状态下) 对比度 ：50 彩色 ：中心 亮度 ：中心 色调 ：中心 鲜明度 ：中心	※ 如果不显示时，对比度、彩色、亮度、色调、鲜明度均为标准设定状态。
6	鲜明度	① 接收 E-5 频道信号。 ② 通过图象状态，选择鲜明度。 ③ 按下 UP/DOWN 键，使画质发生相应的变化。	
7	频道代号表示色	① 确认全频道(0～99)代号的表示色为绿色。	※ 如果电视机处于出厂设定值时。
8	高音	① 接收 E-5 频道信号。 ② 通过声音菜单，选择高音。 ③ 按下 UP/DOWN 键，使高音表示发生相应的变化。	
9	低音	① 接收 E-5 频道信号。 ② 通过声音菜单，选择低音。 ③ 按下 UP/DOWN 键，使低音表示发生相应的变化。	
10	平衡	① 接收 E-5 频道信号。 ② 通过声音菜单，选择平衡。 ③ 按下 UP/DOWN 键，使左右平衡发生相应的变化。	

FUNCTION OPERATION CHECK (2) (VIDEO AND AUDIO)

NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
11	COLOUR SYSTEM	① When E-12CH PAL COLOUR BAR is received and another mode except PAL or AUTO is selected in the colour system, Verify that the colour must not be properly operated. ② When E-10CH SECAM COLOUR BAR is received and another mode except SECAM or AUTO is selected in the colour system, Verify that the colour must not be properly operated. ③ When E-37CH NTSC 4.43 COLOUR BAR is received and another mode except N4.43 or AUTO is selected in the colour system, Verify that the colour must not be properly operated.with UP/DOWN. ④ When JA-8CH NTSC 3.58 COLOUR BAR is received and another mode except N3.58 or AUTO is selected in the colour system, Verify that the colour must not be properly operated.	**Note:** Take care that the colour and sound must not be properly operated with the special signal E-4, E-37, J-38 and E-64 in the auto mode.(Check it in the forcible mode.)
12	SOUND SYSTEM	① When OI-9CH PAL COLOUR BAR is received and M, B/G, I is selected in the sound system, Verify that the sound must not be properly output. ② When E-23CH monoscope is received and M, B/G, D/K is selected in the sound system, Verify that the sound must not be properly output. ③ When E-12CH colour bar is received and M, I, D/K is selected in the sound system, Verify that the sound must not be properly output. ④ When JA-8CH colour bar is received and B/G, I, D/K is selected in the sound system, Verify that the sound must not be properly output.	**Note:** Take care that 5.5M of 1 and 6.5M of 3 are slight in the variation.
13	SPATIALIZER Key	① Receive E-5CH music broadcast. ② The sound mode must be switched with SPATIALIZER key (R/C) as follows. SPATIALIZER OFF ↓ SPATIALIZER 1 ↓ SPATIALIZER 2 ↓ ③ Verify that the sound from the speaker in the MONO mode is felt to be wide.	R/C key or MENE screen
14	S-BOOSTER	① Receive E-5CH music broadcast. ② Select S-BOOSTER in S-mode. ③ The high/low bands must be varied with ON/OFF. (The high/low bands must be raised with ON.)	

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检查电路功能(2)(图象和声音)

编号	调整处	调整步骤和条件	波形以及其它
11	彩色制式	① 接收E-12频道的PAL制式彩条信号，并用彩色制式选择 PAL 制式或 AUTO 以外的调整状态，此时，应确认彩色功能不能正常工作。 ② 接收E-10频道的SECAM制式彩条信号，并用彩色制式选择SECAM制式或AUTO以外的调整状态，此时，应确认彩色功能不能正常工作。 ③ 接收 E-37 频道的 NTSC 4.43 制式彩条信号，并用彩色制式选择 NTSC 4.43 制式或 AUTO 以外的调整状态，此时，应确认彩色功能不能正常工作。 ④ 接收 JA-8 频道的 NTSC 3.58 制式彩条信号，并用彩色制式选择 NTSC 3.58 制式或 AUTO 以外的调整状态，此时，应确认彩色功能不能正常工作。	注意： 在自动调整状态下，E-4、E-37、J-38、E-64特殊信号的彩色以及不能正常发出声音，请注意。(检查一下强制调整状态)
12	声音制式	① 接收 OI-9 频道的 PAL 制式彩条信号，并用声音制式选择 M,B/G,I，此时，应确认不能正常发出声音。 ② 接收E-23频道的单象管测试图信号，并用声音制式选择M,B/G,D/K，此时，应确认不能正常发出声音。 ③ 接收 E-12 频道的彩条信号，并用声音制式选择 M,I,D/K，此时，应确认不能正常发出声音。 ④ 接收 JA-8 频道的彩条信号，并用声音制式选择 B/G,I,D/K，此时，应确认不能正常发出声音。	注意： 此时，1的 5.5M 和 3 的 6.5M 的变化不大，请注意。
13	SPATIALIZER键	① 接收 E-5 频道的播放音乐信号。 ② 按下 SPATIALIZER 键(R/C)，声音调整状态如下顺序转换。 SPATIALIZER 关 ↓ SPATIALIZER 1 ↓ SPATIALIZER 2 ↓ ③ 在 MONO 状态下，确认从扬声器中发出的声音有无临场感。	用 R/C 键或项目显示画面。
14	S-BOOSTER	① 接收 E-5 频道的播放音乐信号。 ② 在 S-MODE 状态下选择 S-BOOSTER。 ③ 用开／关键，使高低音区域发生变化。 (在开时有高低音区域)	

C23

PROTECTOR OPERATION CHECK

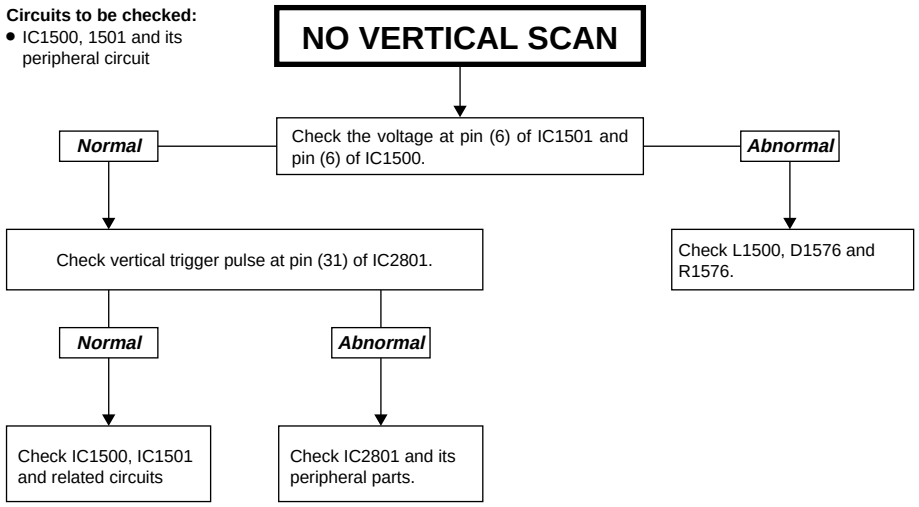
NO.	Adjustment part	Adjusting procedure and conditions	Waveform and others
1	H, V protector	① Receive E-5CH (monoscope pattern). ② Connect the bias box to the cathode side (R1662 side) of D1621. ③ Set the voltage of the bias box at 15V, and verify that the protector does not operate. ④ Set the voltage of the bias box at 24V, and verify that the protector operates.	Reference Approx. 17.7 V as ordinary
2	Other protectors	① Correspondence for short circuit of smoothening electrolysis of +B line and so on To check the operation of the protector and so on, take care for the breakage, deterioration and so on of each element.	

确认保护电路功能

编号	调整处	调整步骤和条件	波形以及其它
1	H,V保护电路	① 接收 E-5 频道(单象管测试图)信号。 ② 将偏压器连接在 D1621 的阴极侧(R1662 侧)。 ③ 将偏压器设定为 15V，确认保护电路处于不正常状态。 ④ 将偏压器设定为 24V，确认保护电路处于正常状态。	参考 通常为约 17.7V
2	其它保护电路	① 以 + B线路等平滑用电解的连接对应确认保护电路等的功能时，应注意各部件的损坏和老化情况等。	

TROUBLE SHOOTING TABLE

Circuits to be checked:
- IC1500, 1501 and its peripheral circuit

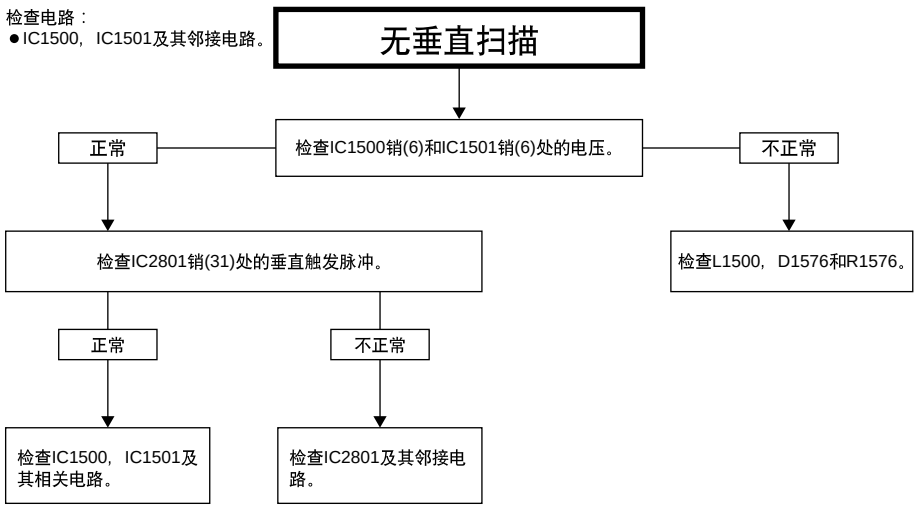

NO VERTICAL SCAN
Check the voltage at pin (6) of IC1501 and pin (6) of IC1500.
Normal
Abnormal
Check vertical trigger pulse at pin (31) of IC2801.
Check L1500, D1576 and R1576.
Normal
Abnormal
Check IC1500, IC1501 and related circuits
Check IC2801 and its peripheral parts.

Note 1: Make sure that not for the horizontal centering mode. Turn on the service mode. (Short J351 and J352.) Then when you press "- / --" key on the remote you can get in the horizontal centering mode.

Note 2: The vertical sync signal must be fed to pin (2) of IC1000 in oder not to activate the vertical no-scan protector. Take this measure with the protector circuit for the troubleshooting on the following pages.

故障检修流程图

检查电路：
- IC1500，IC1501及其邻接电路。

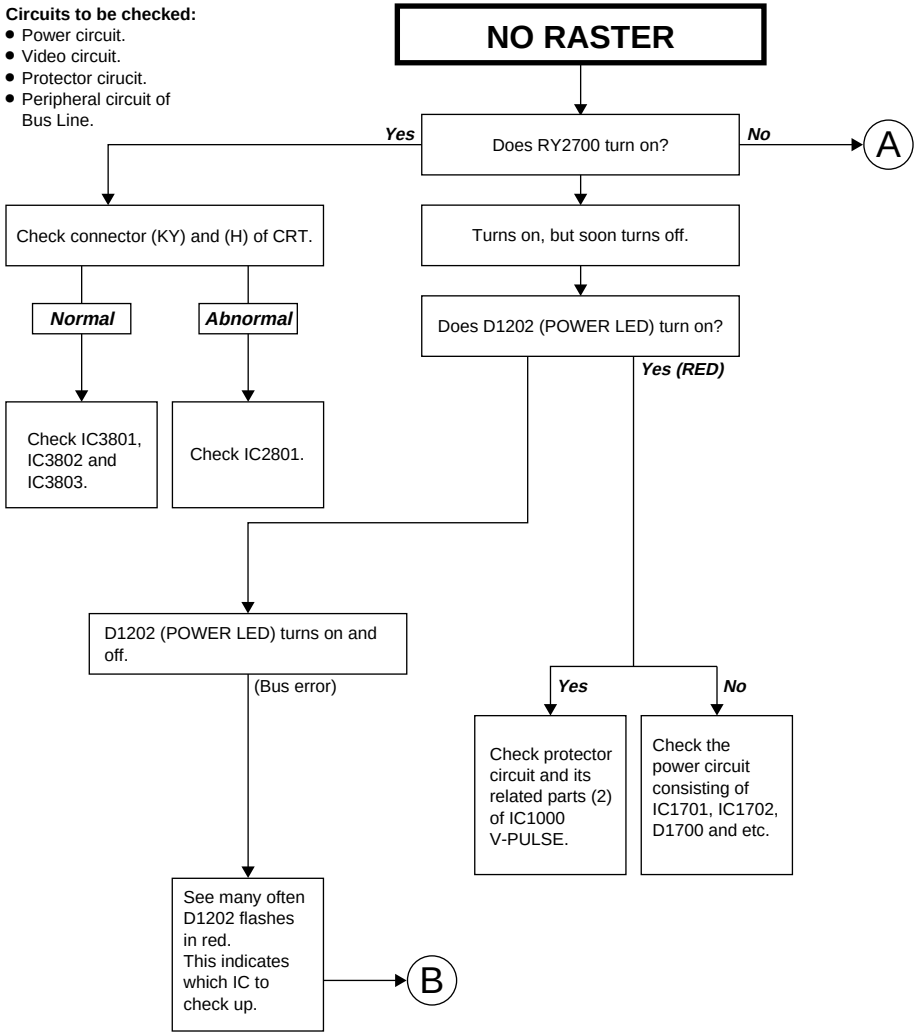


注1： 先确认荧屏不设定于水平中心状态，然后再设定于保养调整状态。（短接J351和J352）。
触按遥控器上的“-/--”键时，荧屏即可进入水平中心状态。

注2： 为防止发生垂直扫描线，必须输入垂直同步信号于IC1000的销(2)，否则保护器便会开动。
关于下页以后所述的保护电路，必须按上记要领进行之。

TROUBLE SHOOTING TABLE (Continued)

Circuits to be checked:
- Power circuit.
- Video circuit.
- Protector cirucit.
- Peripheral circuit of Bus Line.


NO RASTER
Does RY2700 turn on?
Yes
No
A
Check connector (KY) and (H) of CRT.
Turns on, but soon turns off.
Normal
Abnormal
Does D1202 (POWER LED) turn on?
Yes (RED)
Check IC3801, IC3802 and IC3803.
Check IC2801.
D1202 (POWER LED) turns on and off.
(Bus error)
Yes
No
Check protector circuit and its related parts (2) of IC1000 V-PULSE.
Check the power circuit consisting of IC1701, IC1702, D1700 and etc.
See many often D1202 flashes in red. This indicates which IC to check up.
B

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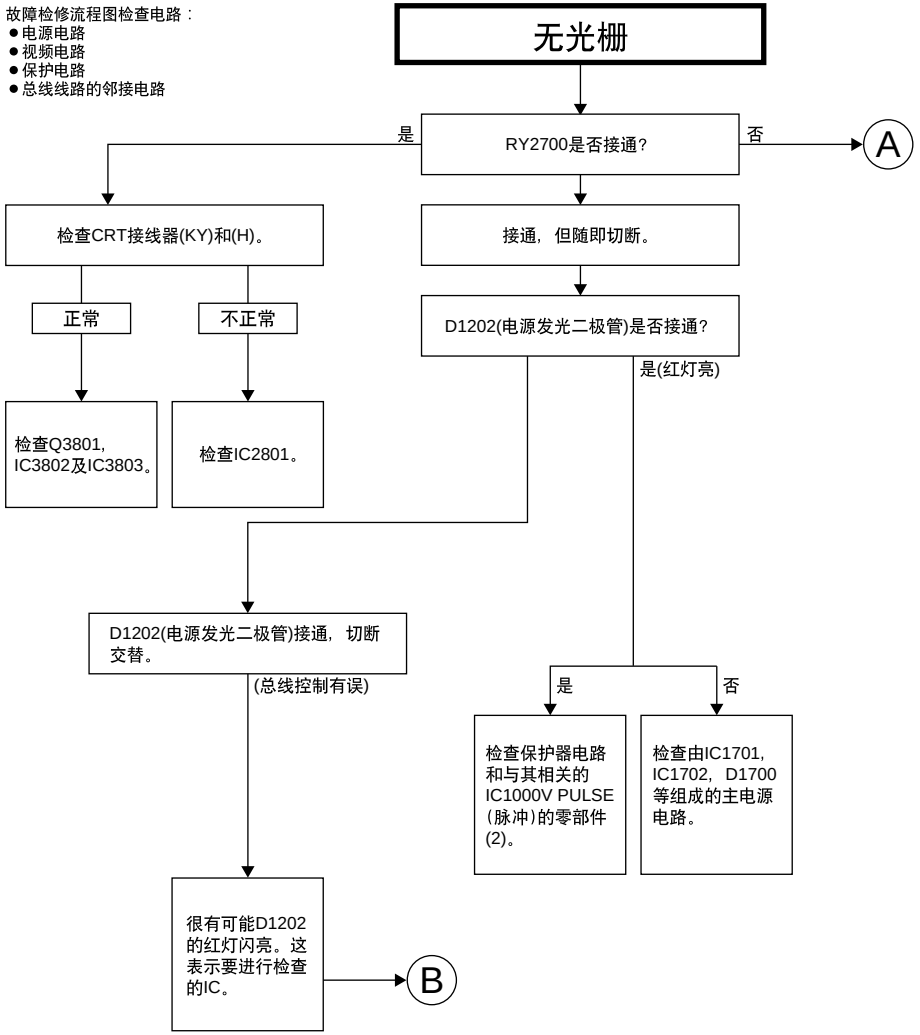
故障检修流程图（接上页）

故障检修流程图检查电路：
- 电源电路
- 视频电路
- 保护电路
- 总线线路的邻接电路



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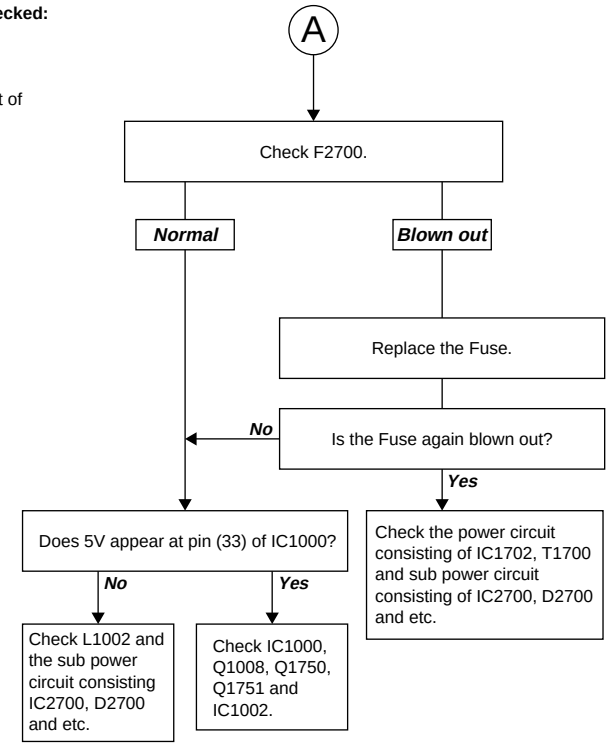
TROUBLE SHOOTING TABLE (Continued)

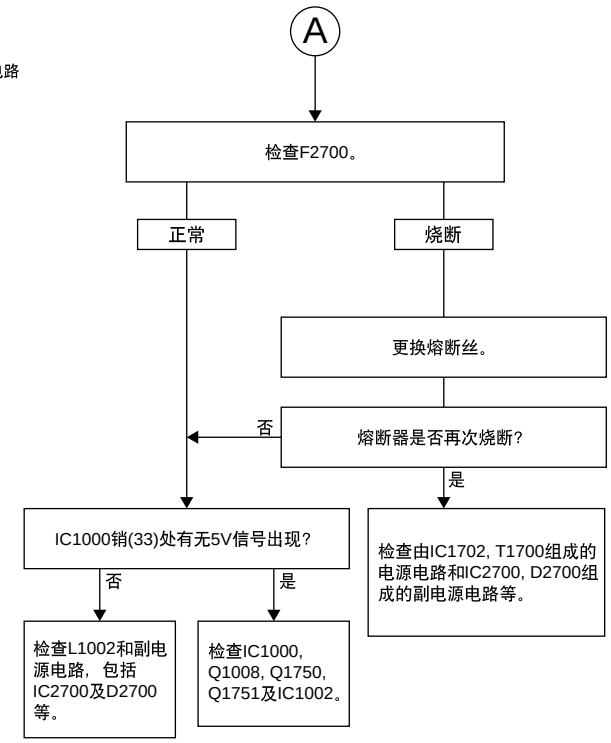
Circuits to be checked:
- Power circuit.
- Micon circuit.
- Protector circuit
- Peripheral circuit of Bus Line.


A
Check F2700.
Normal
Blown out
Replace the Fuse.
No
Is the Fuse again blown out?
Yes
Does 5V appear at pin (33) of IC1000?
No
Yes
Check L1002 and the sub power circuit consisting IC2700, D2700 and etc.
Check IC1000, Q1008, Q1750, Q1751 and IC1002.
Check the power circuit consisting of IC1702, T1700 and sub power circuit consisting of IC2700, D2700 and etc.

E27

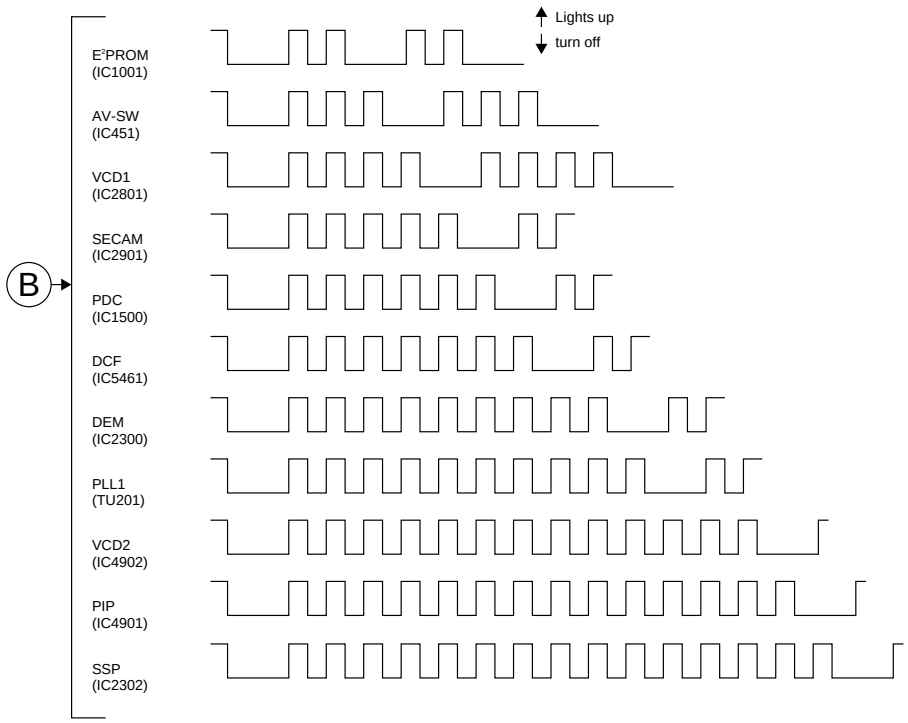
故障检修流程图（接上页）

检查电路：
- 电源电路
- 保护电路
- 总线线路的邻接电路
- 微型电脑电路



C27

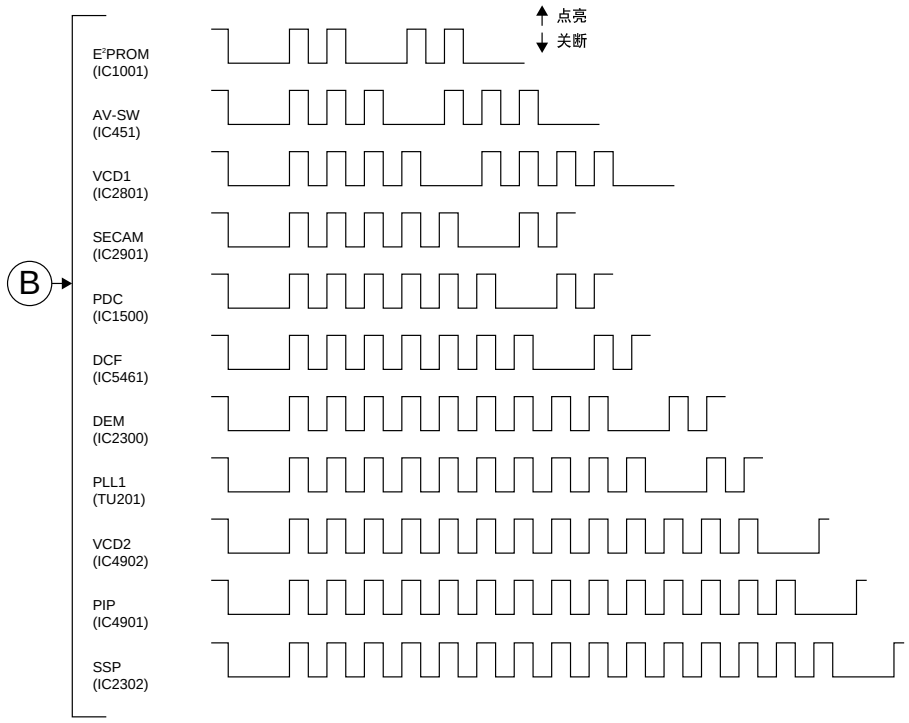
TROUBLE SHOOTING TABLE (Continued)



Other pattern: Other I²C bus control ic or unit.
(It has SDA and SCL PORT.)

E28

故障检修流程图（接上页）

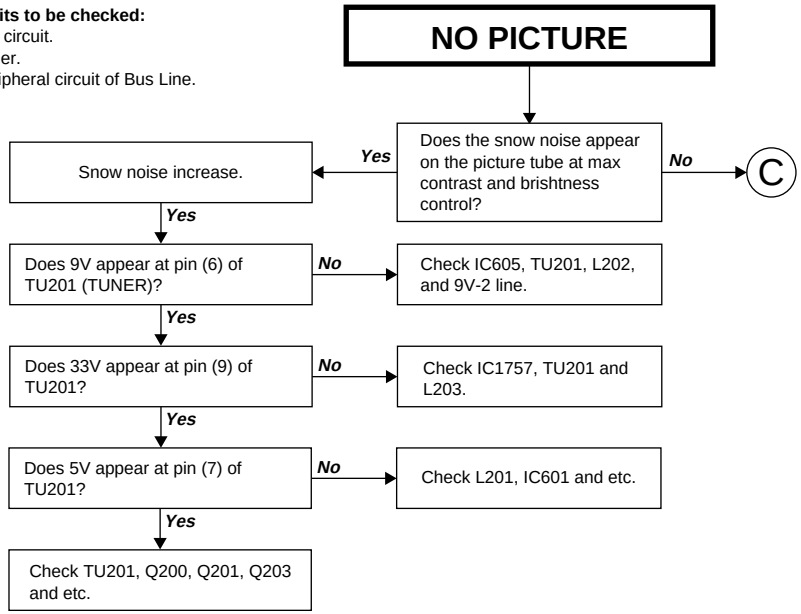


其它类型：其它I²C总集成电路板或组件。（它具有SDA和SCL站口（PORT））

C28

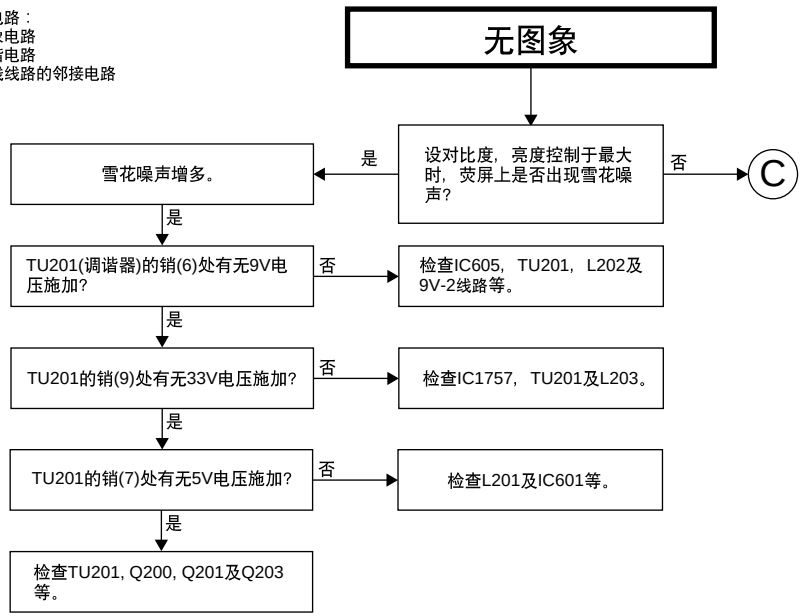
TROUBLE SHOOTING TABLE (Continued)

Circuits to be checked:
- A/V circuit.
- Tuner.
- Peripheral circuit of Bus Line.


NO PICTURE
Does the snow noise appear on the picture tube at max contrast and brishtness control?
Yes
No
C
Snow noise increase.
Yes
Does 9V appear at pin (6) of TU201 (TUNER)?
No
Check IC605, TU201, L202, and 9V-2 line.
Yes
Does 33V appear at pin (9) of TU201?
No
Check IC1757, TU201 and L203.
Yes
Does 5V appear at pin (7) of TU201?
No
Check L201, IC601 and etc.
Yes
Check TU201, Q200, Q201, Q203 and etc.

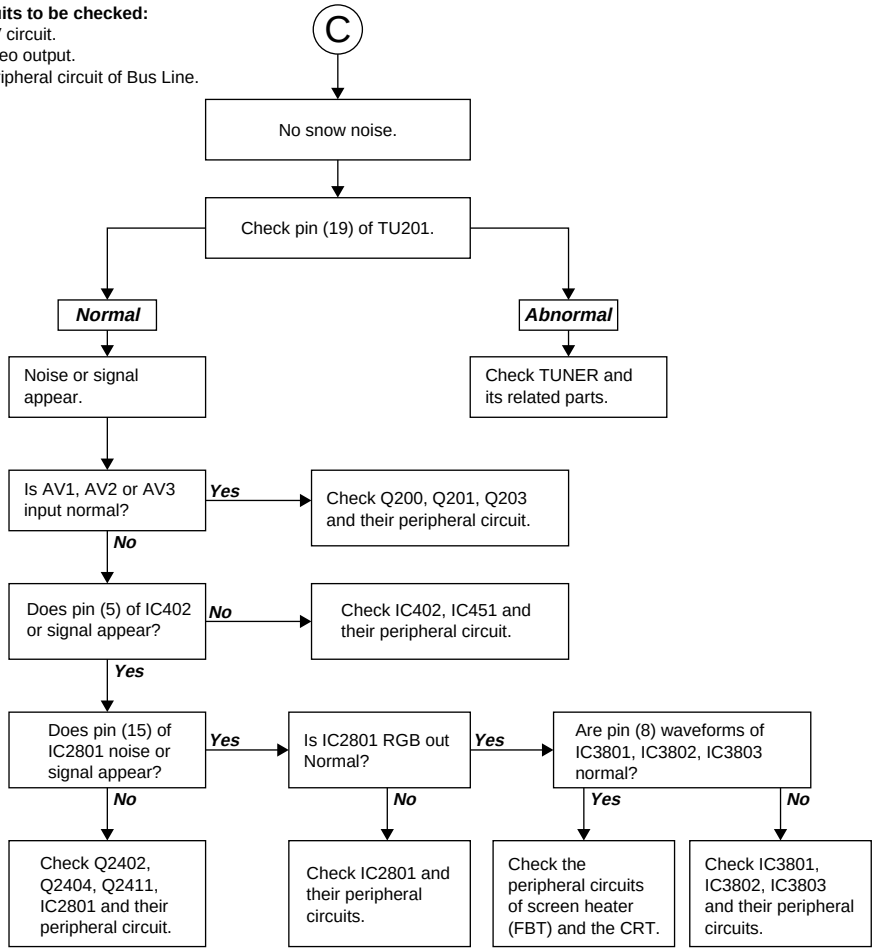
故障检修流程图（接上页）

检查电路：
- 声象电路
- 调谐电路
- 总线线路的邻接电路



TROUBLE SHOOTING TABLE (Continued)

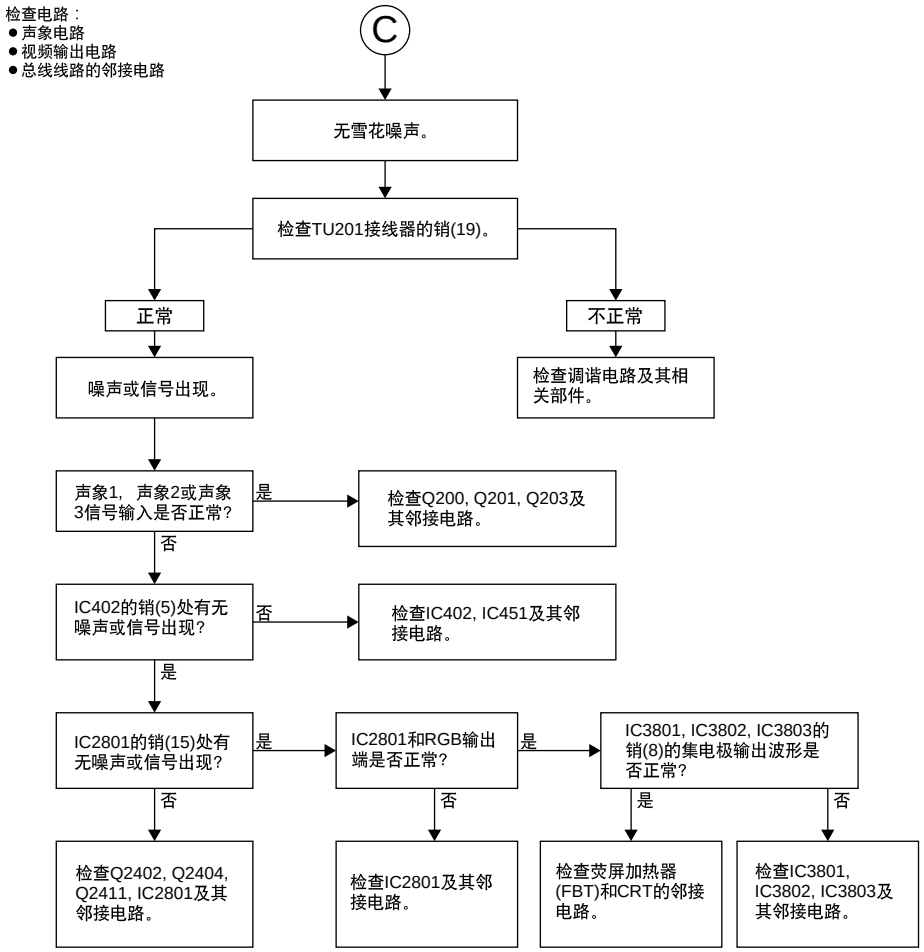
Circuits to be checked:
- A/V circuit.
- Video output.
- Peripheral circuit of Bus Line.


C
No snow noise.
Check pin (19) of TU201.
Normal
Abnormal
Noise or signal appear.
Check TUNER and its related parts.
Is AV1, AV2 or AV3 input normal?
Yes
Check Q200, Q201, Q203 and their peripheral circuit.
No
Does pin (5) of IC402 or signal appear?
No
Check IC402, IC451 and their peripheral circuit.
Yes
Does pin (15) of IC2801 noise or signal appear?
Yes
Is IC2801 RGB out Normal?
Yes
Are pin (8) waveforms of IC3801, IC3802, IC3803 normal?
No
Check Q2402, Q2404, Q2411, IC2801 and their peripheral circuit.
No
Check IC2801 and their peripheral circuits.
Yes
Check the peripheral circuits of screen heater (FBT) and the CRT.
No
Check IC3801, IC3802, IC3803 and their peripheral circuits.

E30

故障检修流程图（接上页）

检查电路：
- 声象电路
- 视频输出电路
- 总线线路的邻接电路

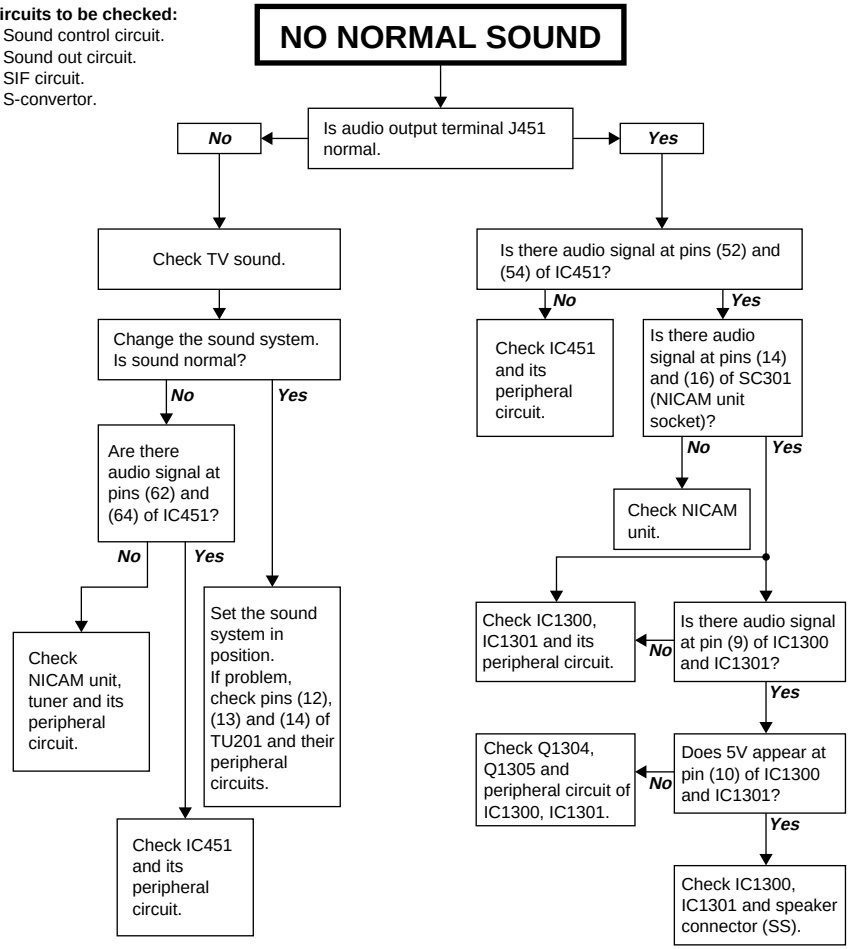


C30

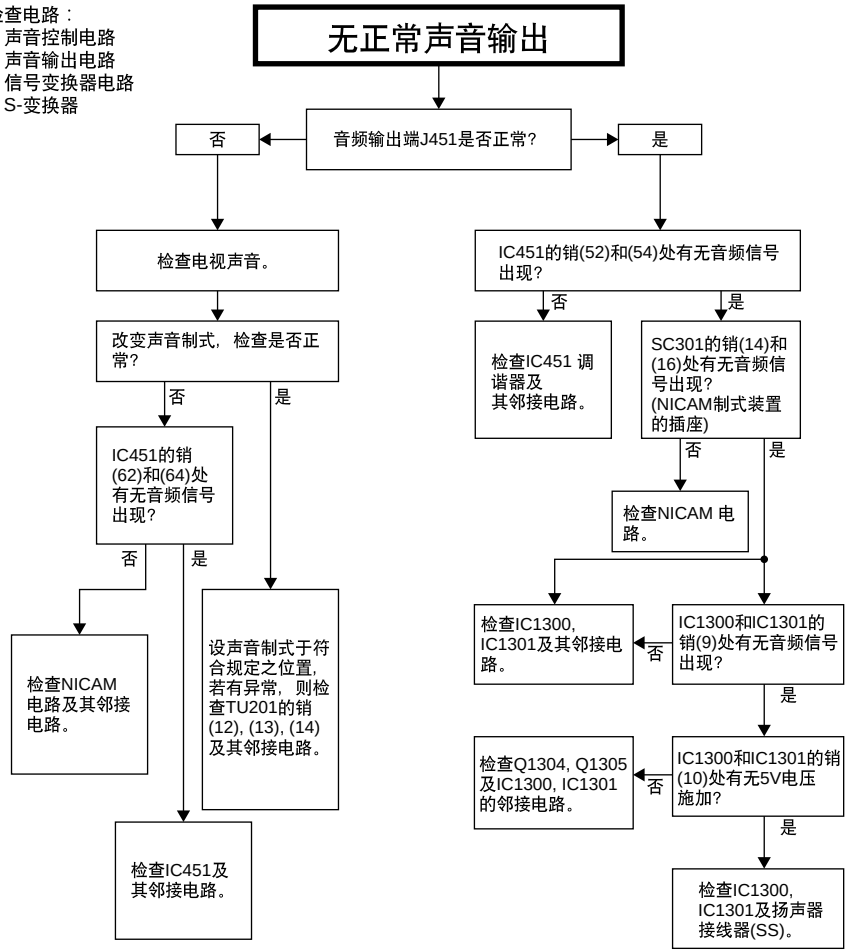
TROUBLE SHOOTING TABLE (Continued)

故障检修流程图（接上页）

Circuits to be checked:
- Sound control circuit.
- Sound out circuit.
- SIF circuit.
- S-convertor.


NO NORMAL SOUND
Is audio output terminal J451 normal.
No
Yes
Check TV sound.
Change the sound system. Is sound normal?
No
Yes
Are there audio signal at pins (62) and (64) of IC451?
No
Yes
Check NICAM unit, tuner and its peripheral circuit.
Set the sound system in position. If problem, check pins (12), (13) and (14) of TU201 and their peripheral circuits.
Check IC451 and its peripheral circuit.
Is there audio signal at pins (52) and (54) of IC451?
No
Yes
Check IC451 and its peripheral circuit.
Is there audio signal at pins (14) and (16) of SC301 (NICAM unit socket)?
No
Yes
Check NICAM unit.
Check IC1300, IC1301 and its peripheral circuit.
No
Is there audio signal at pin (9) of IC1300 and IC1301?
Yes
Check Q1304, Q1305 and peripheral circuit of IC1300, IC1301.
No
Does 5V appear at pin (10) of IC1300 and IC1301?
Yes
Check IC1300, IC1301 and speaker connector (SS).

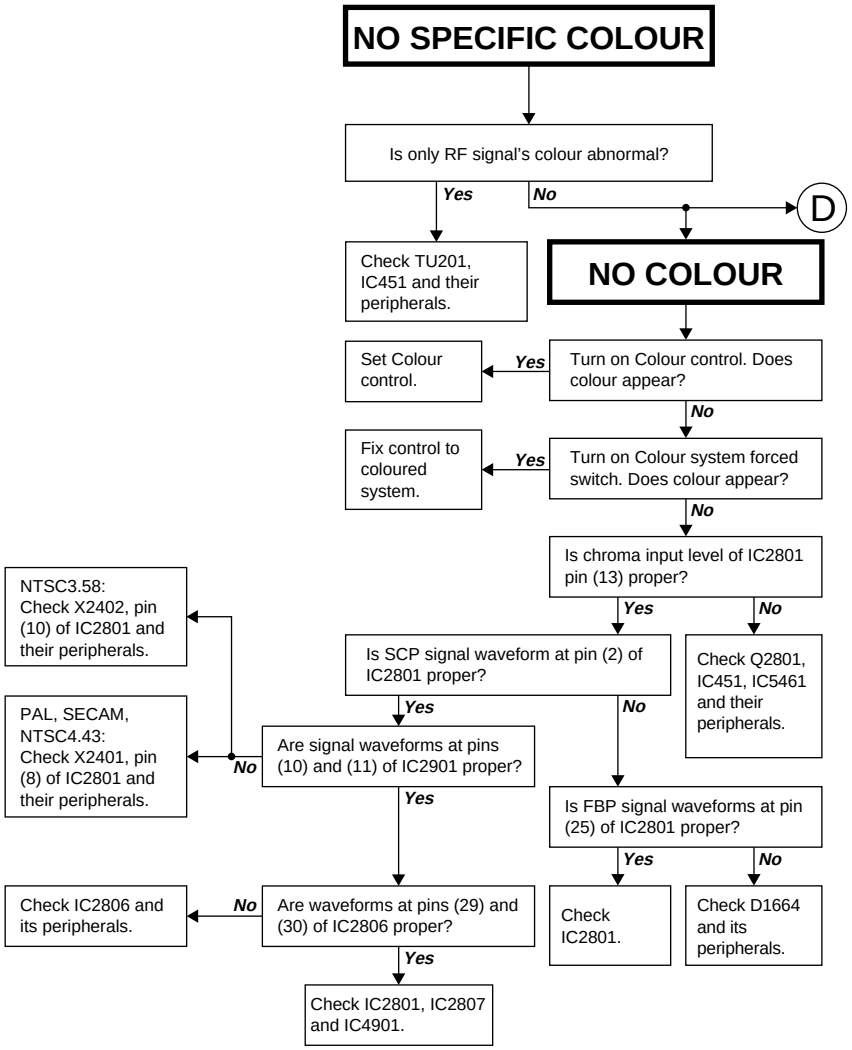
检查电路：
- 声音控制电路
- 声音输出电路
- 信号变换器电路
- S-变换器



E31

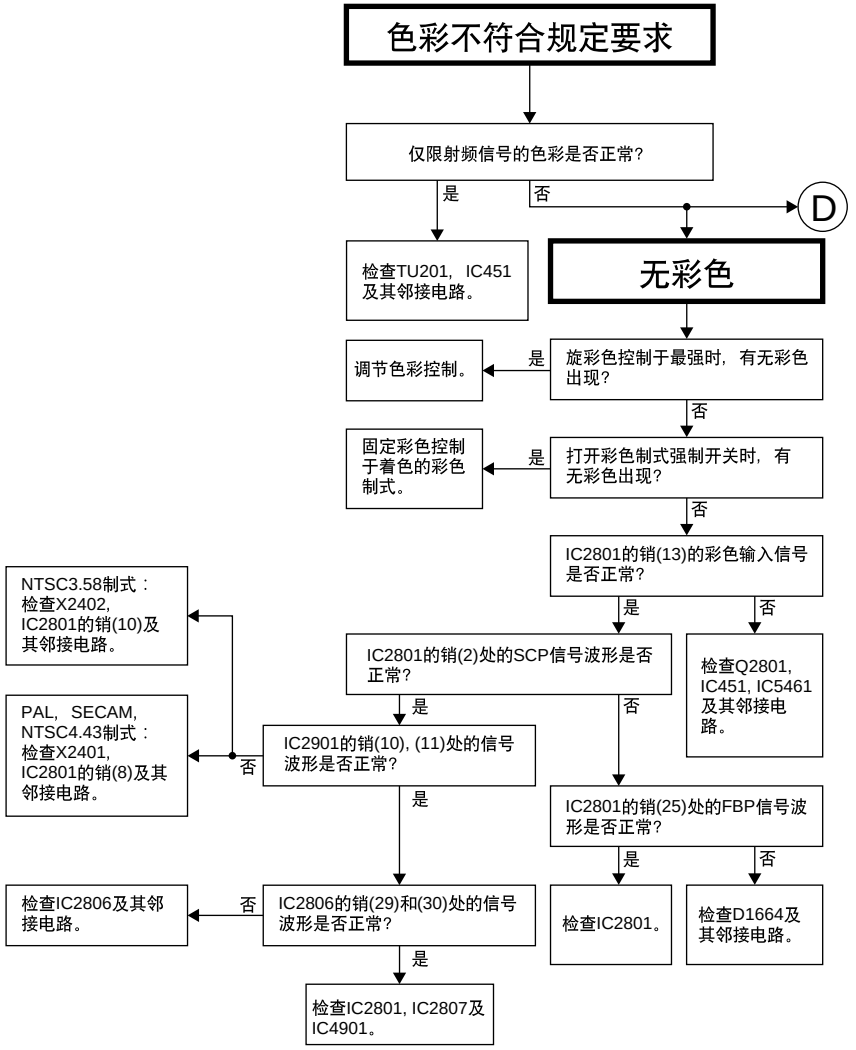
C31

TROUBLE SHOOTING TABLE (Continued)


NO SPECIFIC COLOUR
Is only RF signal's colour abnormal?
Yes
No
D
Check TU201, IC451 and their peripherals.
NO COLOUR
Set Colour control.
Yes
Turn on Colour control. Does colour appear?
No
Fix control to coloured system.
Yes
Turn on Colour system forced switch. Does colour appear?
No
Is chroma input level of IC2801 pin (13) proper?
Yes
No
NTSC3.58: Check X2402, pin (10) of IC2801 and their peripherals.
Is SCP signal waveform at pin (2) of IC2801 proper?
Check Q2801, IC451, IC5461 and their peripherals.
PAL, SECAM, NTSC4.43: Check X2401, pin (8) of IC2801 and their peripherals.
Yes
No
Are signal waveforms at pins (10) and (11) of IC2901 proper?
Yes
No
Is FBP signal waveforms at pin (25) of IC2801 proper?
Yes
No
Check IC2806 and its peripherals.
No
Are waveforms at pins (29) and (30) of IC2806 proper?
Check IC2801.
Check D1664 and its peripherals.
Yes
Check IC2801, IC2807 and IC4901.

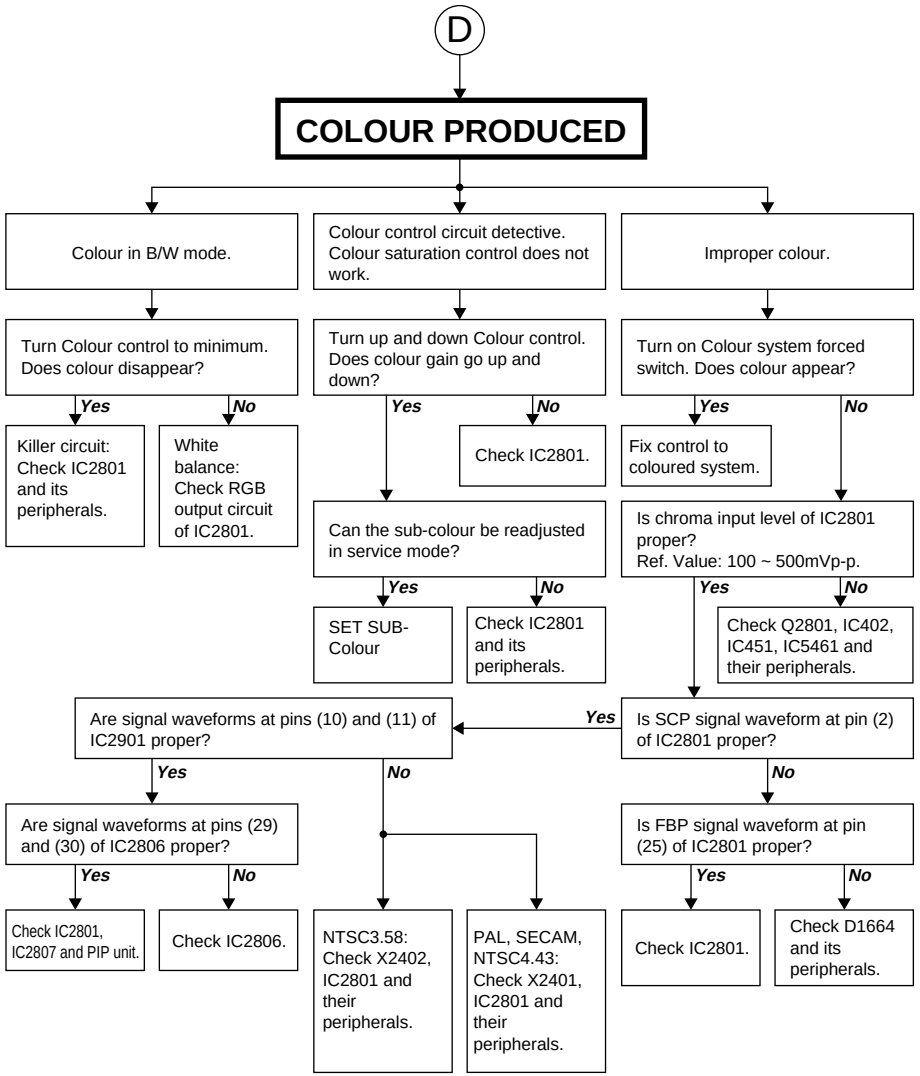
E32

故障检修流程图（接上页）



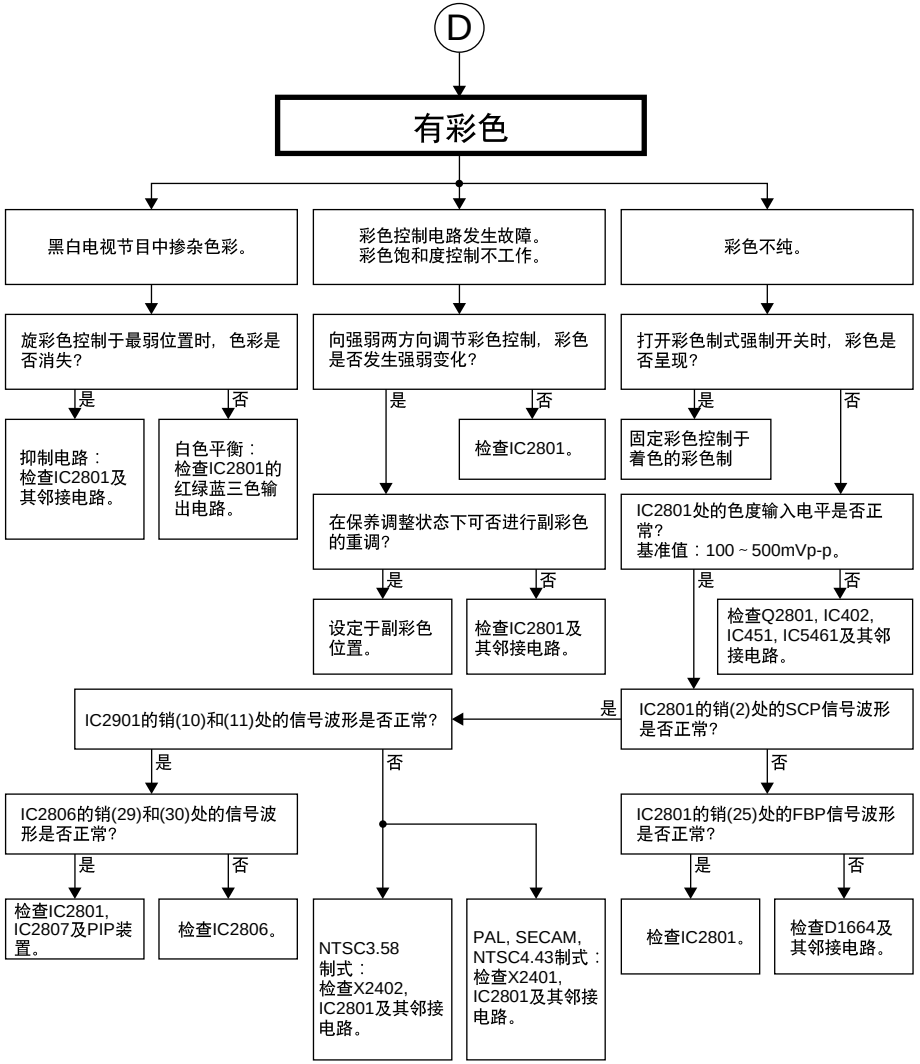
C32

TROUBLE SHOOTING TABLE (Continued)


D
COLOUR PRODUCED
Colour in B/W mode.
Colour control circuit detective. Colour saturation control does not work.
Improper colour.
Turn Colour control to minimum. Does colour disappear?
Turn up and down Colour control. Does colour gain go up and down?
Turn on Colour system forced switch. Does colour appear?
Yes
No
Killer circuit: Check IC2801 and its peripherals.
White balance: Check RGB output circuit of IC2801.
Check IC2801.
Fix control to coloured system.
Can the sub-colour be readjusted in service mode?
Is chroma input level of IC2801 proper? Ref. Value: 100 ~ 500mVp-p.
SET SUB-Colour
Check IC2801 and its peripherals.
Check Q2801, IC402, IC451, IC5461 and their peripherals.
Are signal waveforms at pins (10) and (11) of IC2901 proper?
Is SCP signal waveform at pin (2) of IC2801 proper?
Are signal waveforms at pins (29) and (30) of IC2806 proper?
Is FBP signal waveform at pin (25) of IC2801 proper?
Check IC2801, IC2807 and PIP unit.
Check IC2806.
NTSC3.58: Check X2402, IC2801 and their peripherals.
PAL, SECAM, NTSC4.43: Check X2401, IC2801 and their peripherals.
Check IC2801.
Check D1664 and its peripherals.

E33

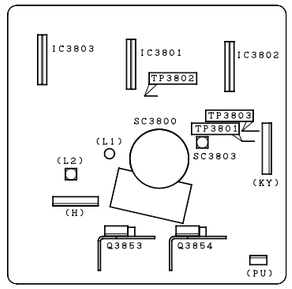
故障检修流程图（接上页）



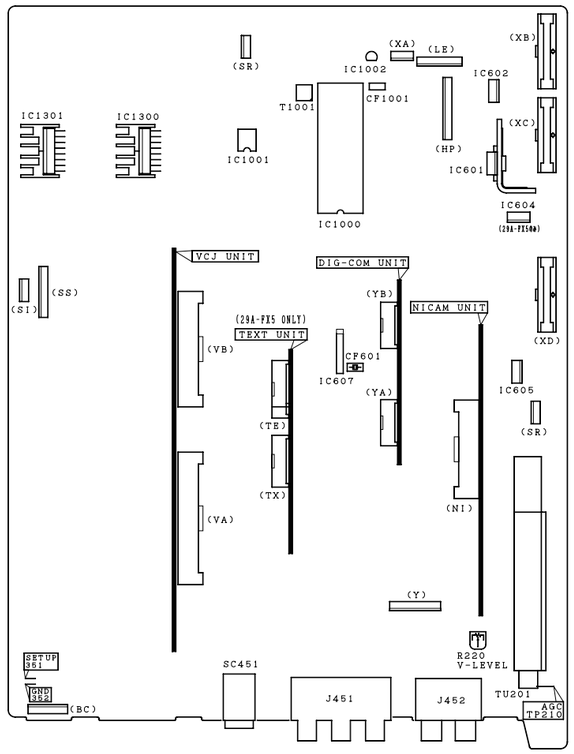
C33

CHASSIS LAYOUT
机芯底盘电路布置

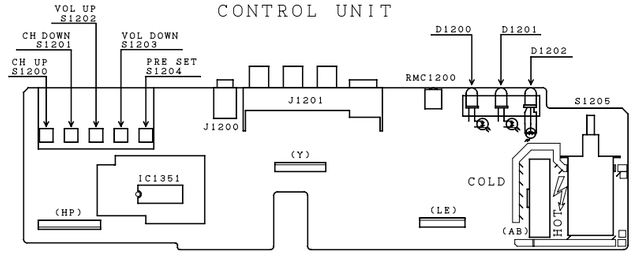
CRT UNIT



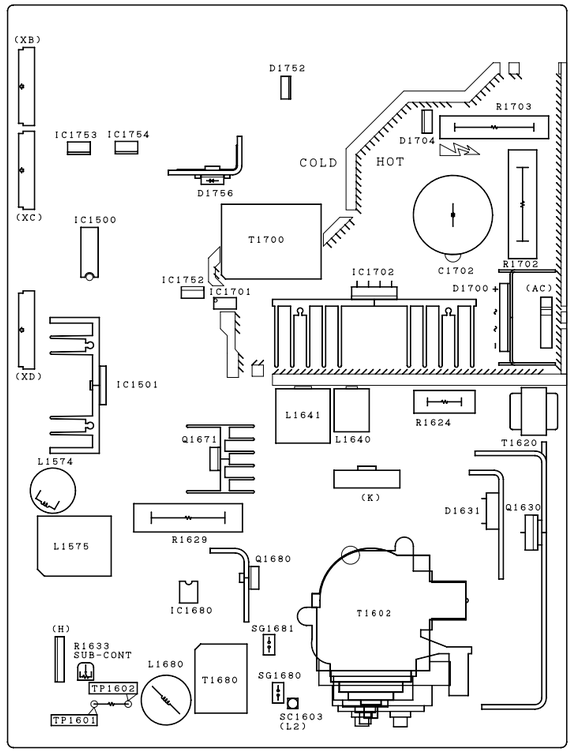
MAIN UNIT



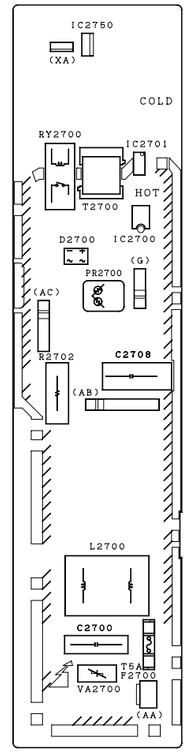
CONTROL UNIT



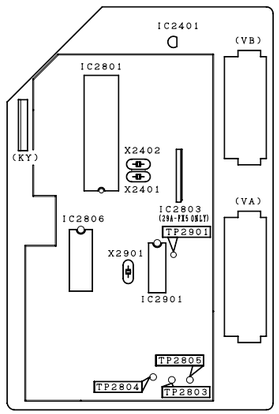
POWER UNIT



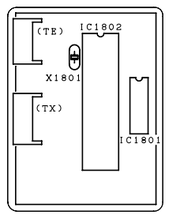
SUB-POW UNIT



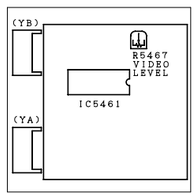
VCJ UNIT



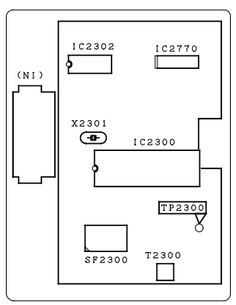
(29A-FX5 ONLY)
TEXT UNIT



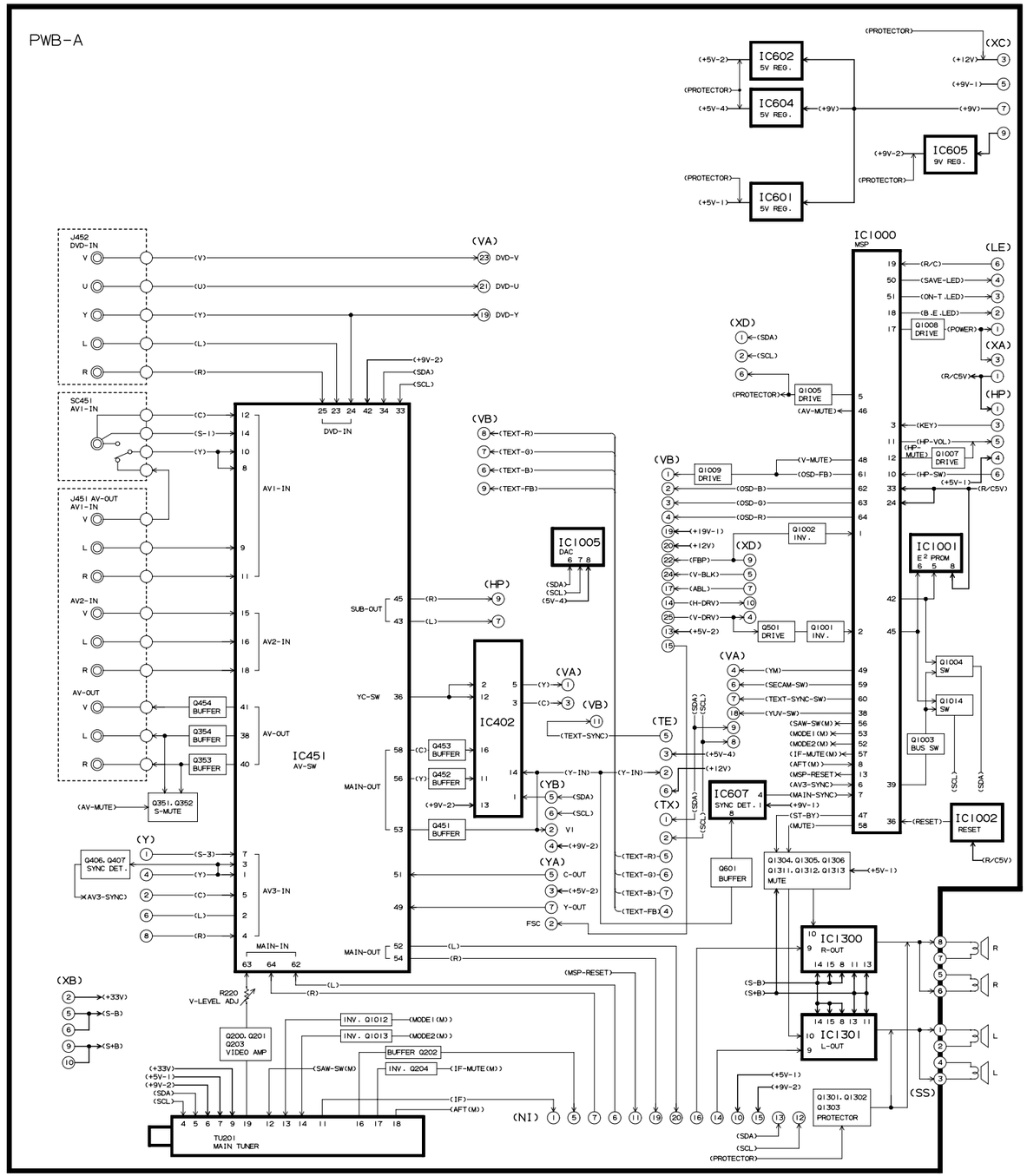
DIG-COM UNIT

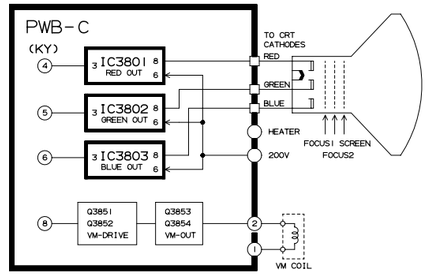


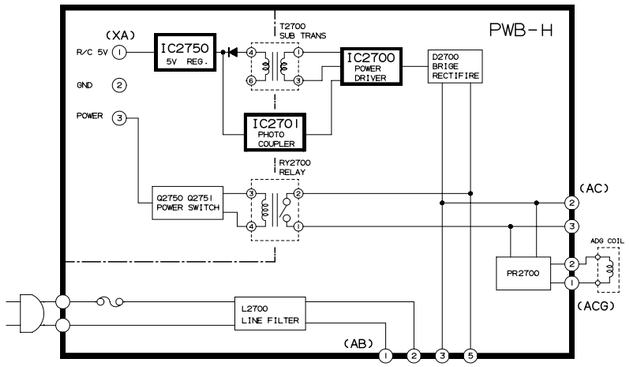
NICAM UNIT

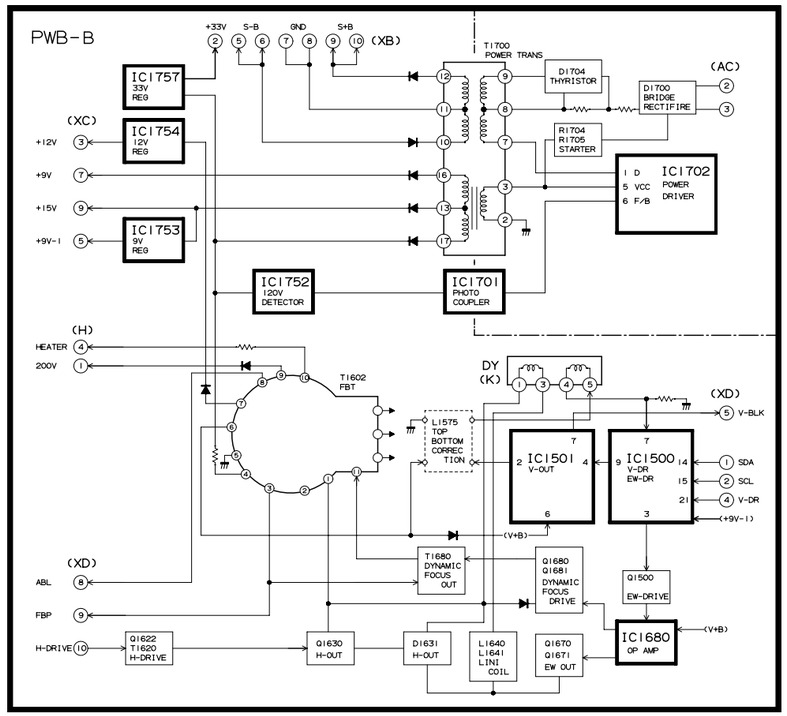


MODEL 29A-FX5 BLOCK DIAGRAM-1
型号29A-FX5 电路方框图-1



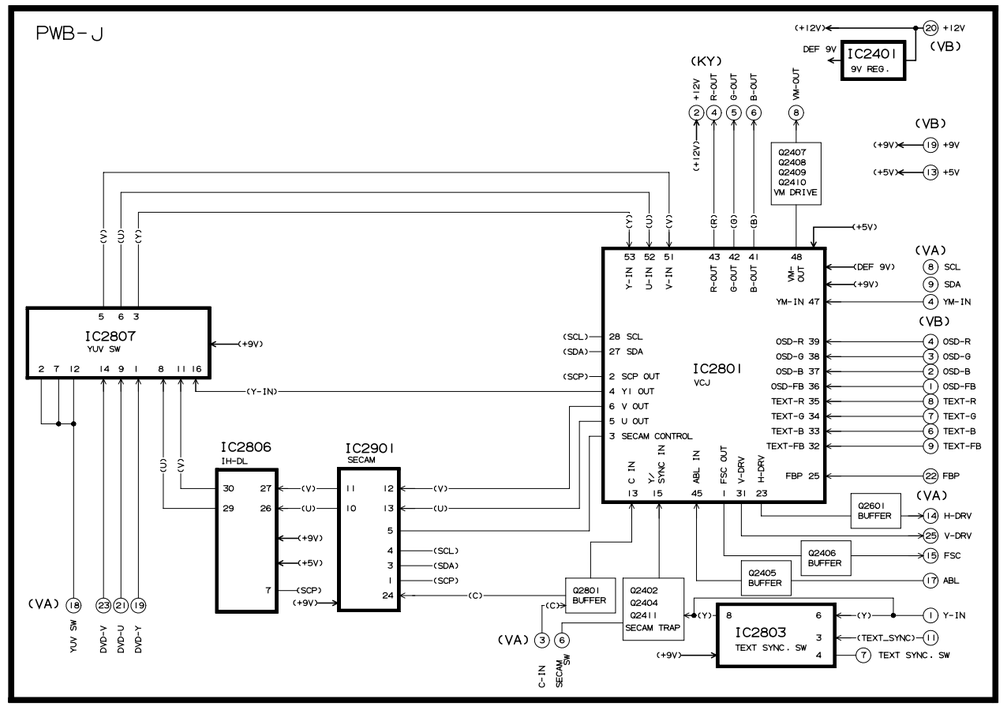


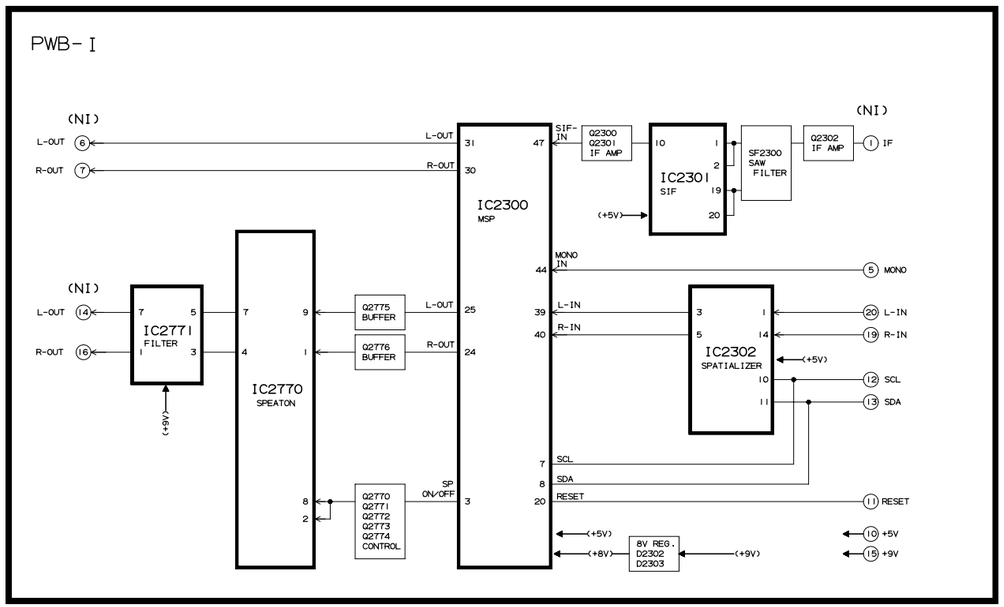


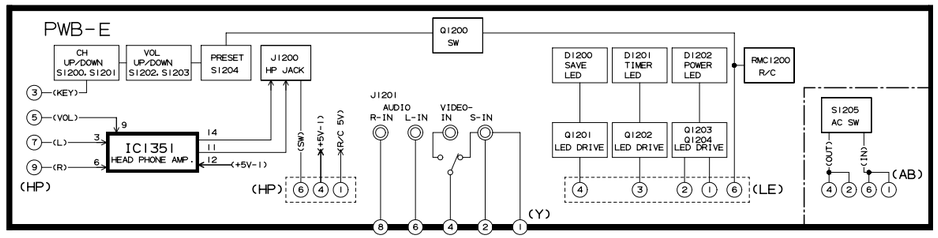


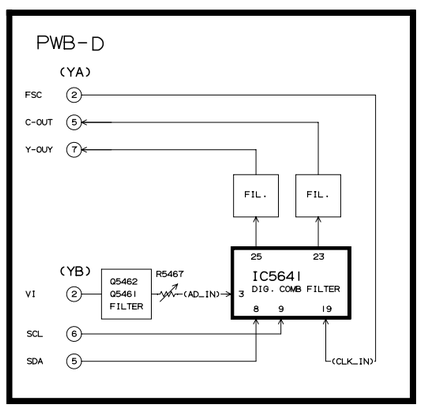
MODEL 29A-FX5 BLOCK DIAGRAM-2

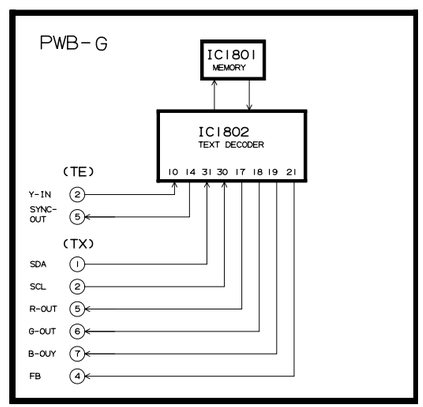
型号29A-FX5 电路方框图-2



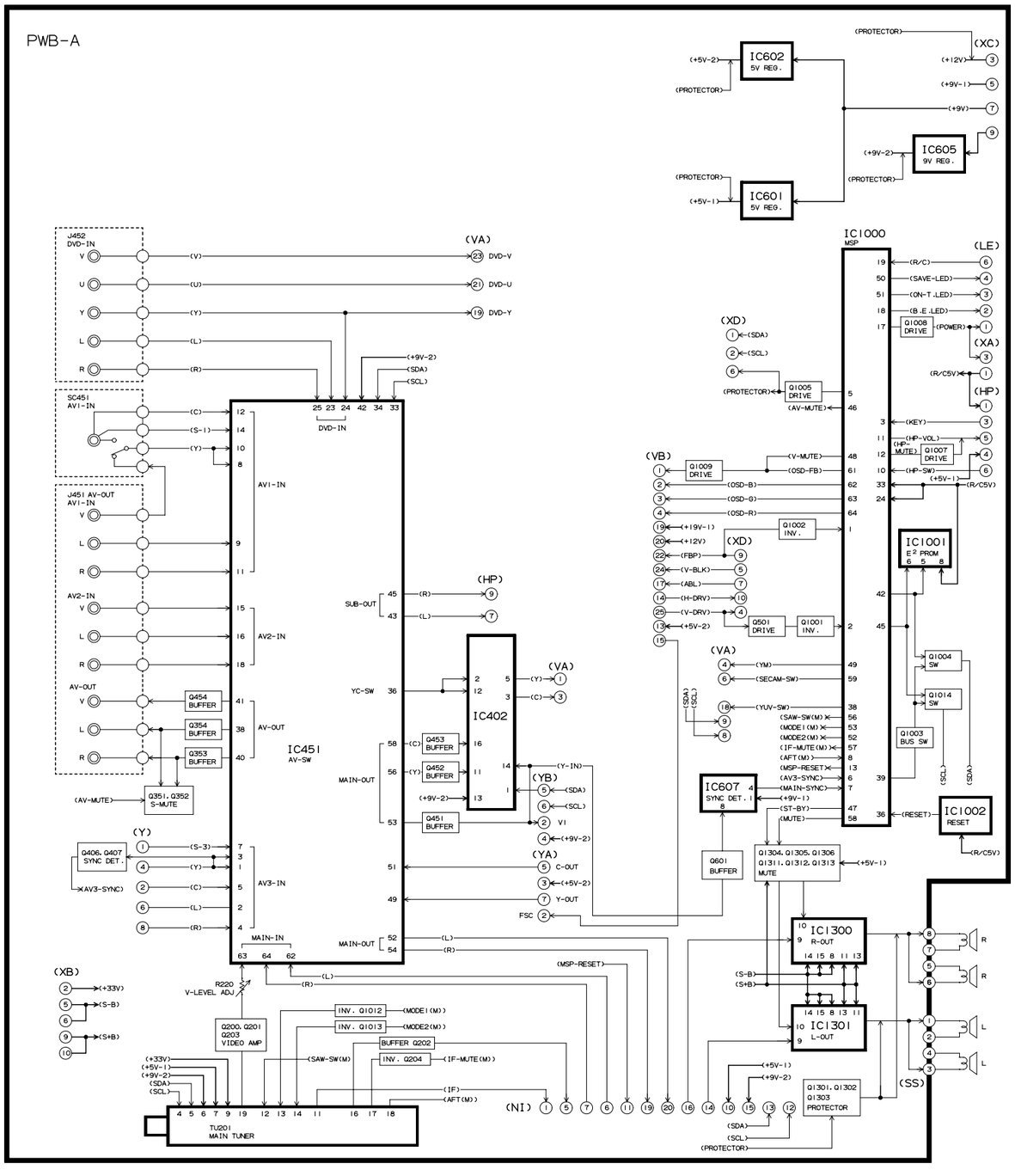


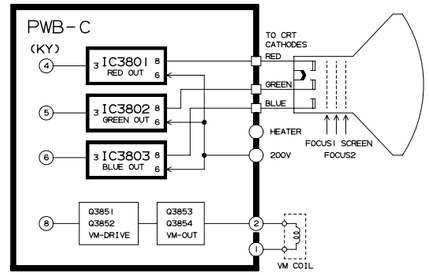


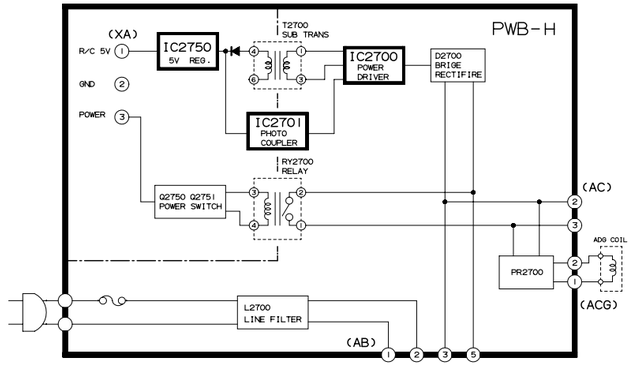


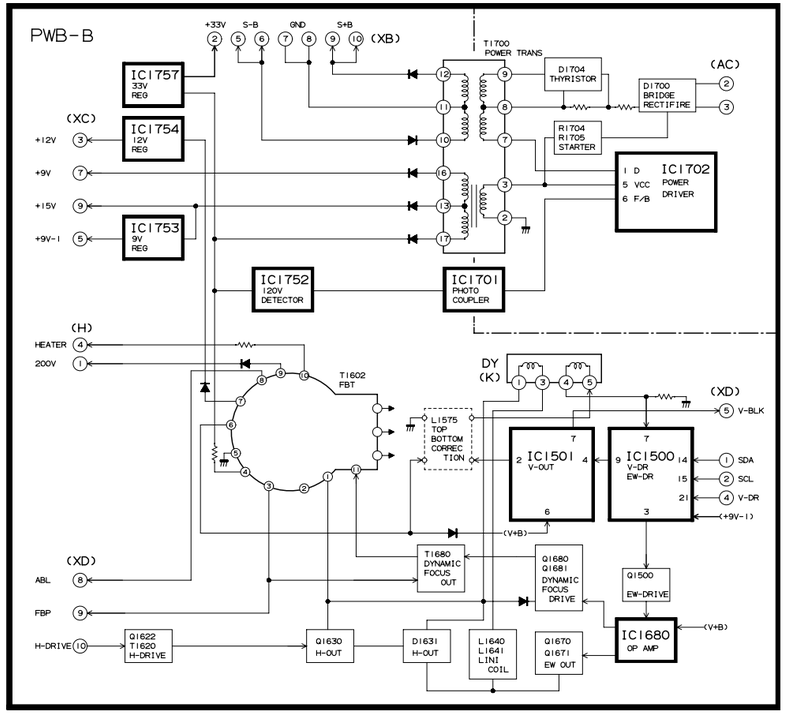


MODEL 29A-FX8 BLOCK DIAGRAM-1
型号29A-FX8 电路方框图-1



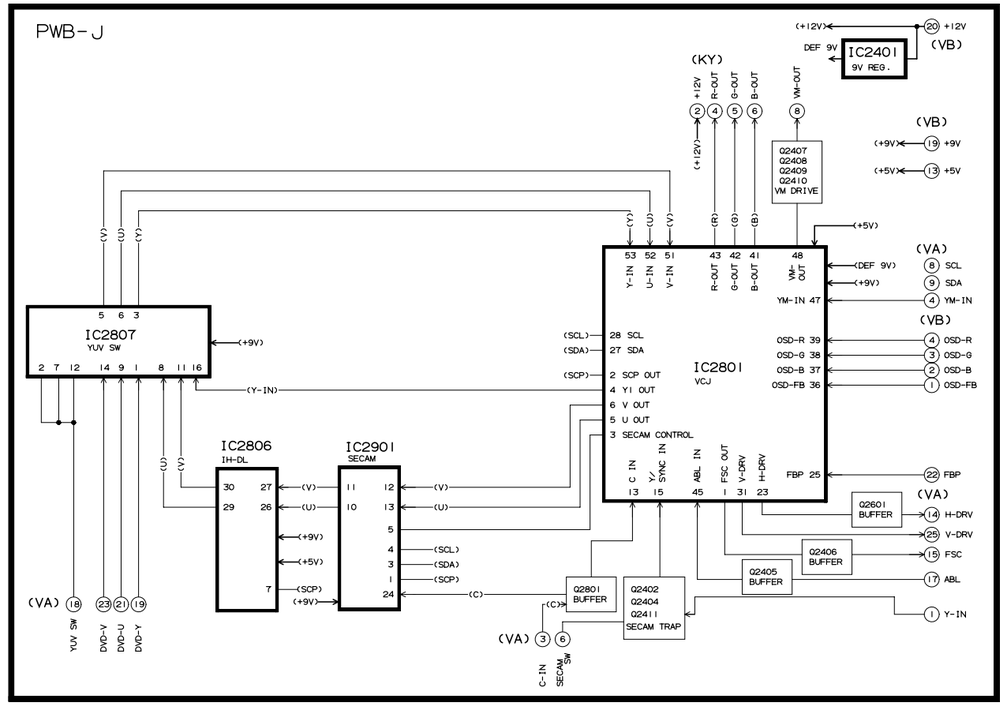


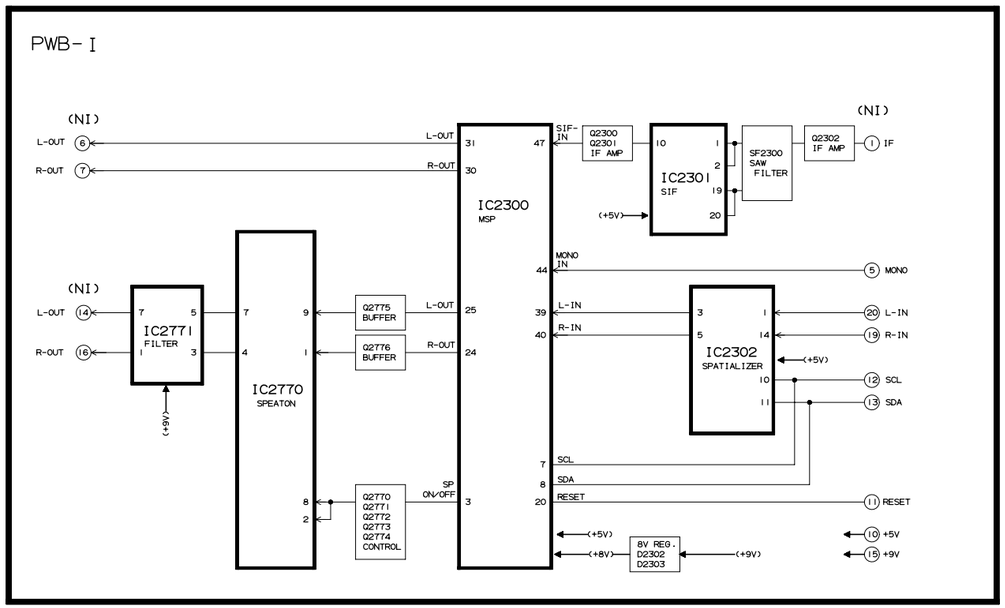


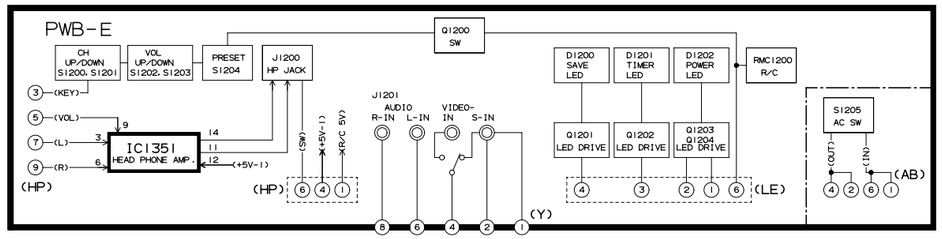


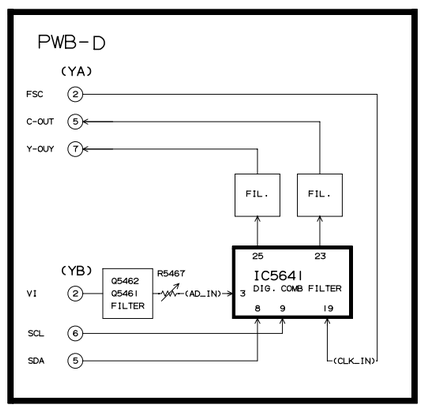
MODEL 29A-FX8 BLOCK DIAGRAM-2

型号29A-FX8 电路方框图-2



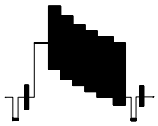






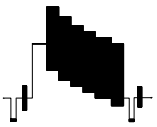
WAVEFORMS
波形图

① 1.0 Vp-p



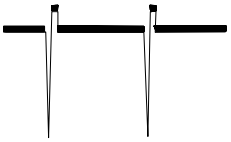
Horiz Rate

② 2.0 Vp-p



Horiz Rate

③ 5.0 Vp-p

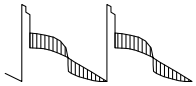


Vert Rate

④ 1.2 Vp-p

Vert Rate

⑤ 58 Vp-p



Vert Rate

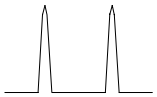
⑥ 60m Vp-p

Horiz Rate

⑦ 220 Vp-p

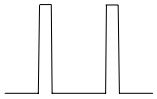
Horiz Rate

⑧ 1150 Vp-p



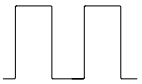
Horiz Rate

⑨ 9.6 Vp-p



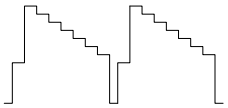
Horiz Rate

⑩ 3 Vp-p



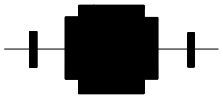
Horiz Rate

⑪ 0.8 Vp-p



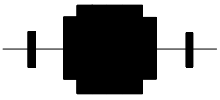
Horiz Rate

⑫ 0.52 Vp-p



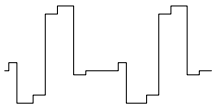
Horiz Rate

⑬ 0.3 Vp-p



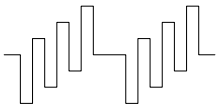
Horiz Rate

⑭ 0.8 Vp-p



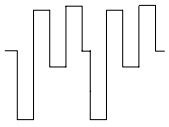
Horiz Rate

⑮ 0.6 Vp-p



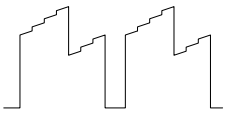
Horiz Rate

⑯ 3.0 Vp-p



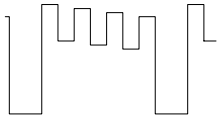
Horiz Rate

⑰ 3.0 Vp-p



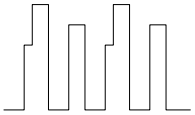
Horiz Rate

⑱ 3.0 Vp-p



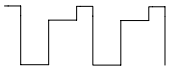
Horiz Rate

⑲ 150 Vp-p



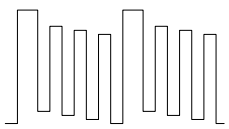
Horiz Rate

⑳ 150 Vp-p



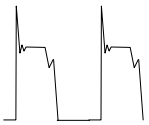
Horiz Rate

㉑ 150 Vp-p



Horiz Rate

㉒ 380 Vp-p(AC110V)
520 Vp-p(AC220V)



Horiz Rate

DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTES:

1. *DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.*
2. *SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.*

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (▬ ▬ ▬) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.
WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

NOTES:

1. *The unit of resistance "ohm" is omitted. (K = 1000 ohms, M = Meg ohm).*
2. *All resistors are 1/16 watt, unless otherwise noted.*
3. *All capacitors are μF, unless therwise noted. (P = μμF).*

VOLTAGE MEASUREMENT CONDITIONS:

1. *Voltage in parenthesis measured with no Signal.*
2. *Voltages without parenthesis measured with PAL Colour-Signal.*
3. *All the voltages in each point are measured with high impedence volt-meter.*

WAVEFORM MEASUREMENT CONDITIONS:

1. *Colour bar generator signal of 1.8V peak to peak applied at Base of Video Buffer Amp. Q200.*
2. *Approximately 4.0 V AGC bias.*

电 路 原 理 图 的 说 明

安全注意事项：

1. 在进行部件更换之前，务请拔出电源插头。
2. 本装置工作时，机芯底盘的半导体散热片有触电之虑，务请注意。

安全使用注意要点：

标有"⚠"（ ）的部件对于电视机安全的维护有至关重要的意义。为了维护本机的安全和使本机能正常工作，必须使用指定品来更换这些部件。

维修注意:

被（▬ ▬ ▬）线围起的地方直接和交流电压相连接。当对该处进行维修时，为了排除遭受电击的危险性，要在电视接收机和交流电源之间连接隔离变压器。

电路单位说明：

1. 电阻欧姆（Ω）单位予以略记（K=千欧姆，M=兆欧姆）。
2. 除特别说明者外，图中电阻效率的为1/16瓦特。
3. 除特别说明者（P=微微法拉）外，图中电容单位的为μF（微法拉）。

电压测定条件

1. 括号中的电压值为无信号状态下所侧。
2. 括号外的电压值为3mV黑白或彩色信号状态下所侧。
3. 所有侧试点的电压值的为电子管电压计VTVM所侧。

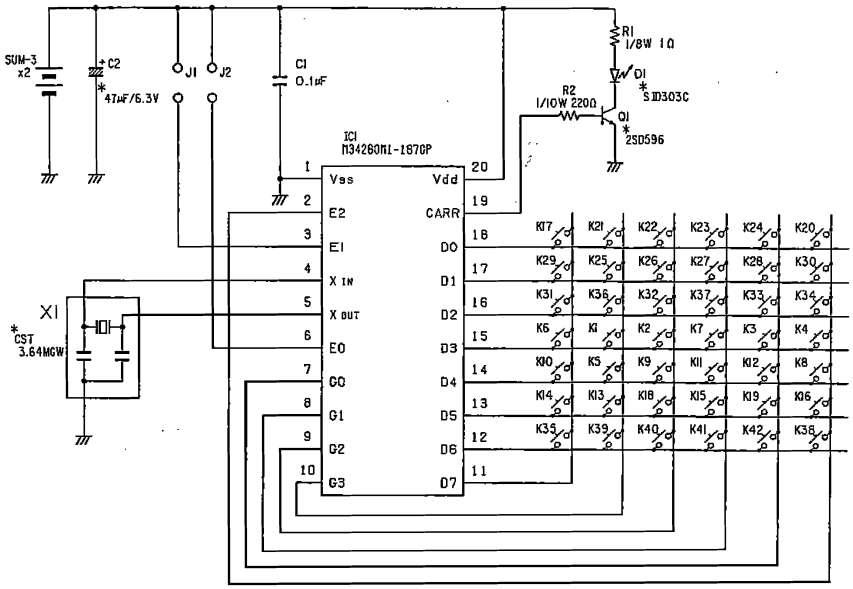
波形测定条件：

1. 施加1.8Vp-p的彩条发生器信号干视频缓冲放大器Q200的基极。
2. 自动增益控制偏压约为4.0V。

■ Infrared Remote Control Unit (29A-FX5)
红外线遥控器

RRMCG1498PESA

NOTE : The parts here shown are supplied as an assembly but not independently.
注意 ：在更换零件订货时，请以一套为最小单位，切勿以单件订货。

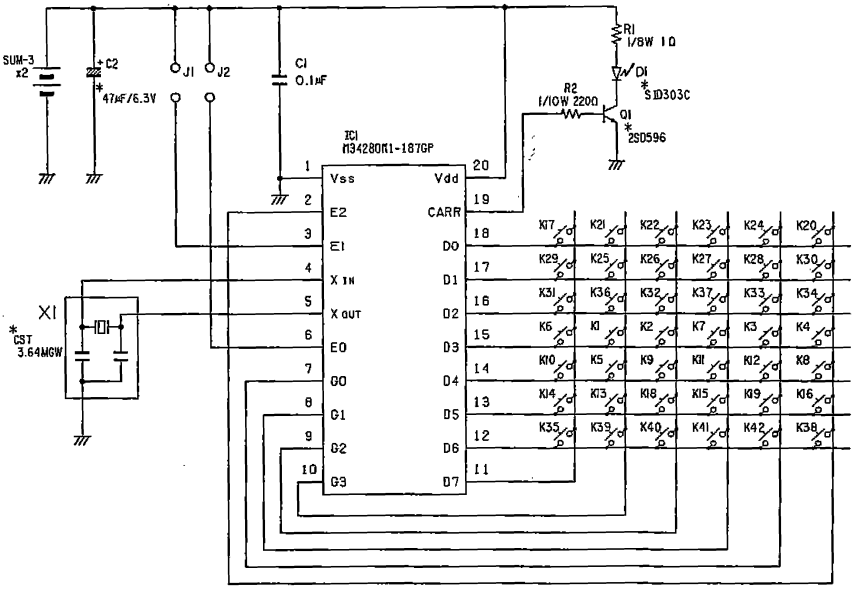


Key No.	Key name
K1	POWER
K2	SAVE
K3	CALL
K4	TV/VIDEO
K5	MUTE
K6	1
K7	2
K8	3
K9	ENTERTAINMENT
K10	4
K11	5
K12	6
K13	SPATIALIZER
K14	7
K15	8
K16	9
K17	MPX MODE
K18	⊟
K19	0
K20	///
K21	A(TEXT RED)
K22	B(TEXT GREEN)
K23	C(TEXT YELLOW)
K24	D(TEXT CYAN)
K25	VOL DOWN
K26	CH UP
K27	VOL UP
K28	CH DOWN
K29	NORMAL
K30	MENU
K31	
K32	
K33	
K34	TEXT TEXT/MIX
K35	TEXT INITIAL INDEX
K36	TEXT STOP
K37	TEXT SIZE
K38	TEXT PIC
K39	TEXT TIMED PAGE
K40	TEXT REVEAL
K41	TEXT CANCEL
K42	TEXT RESET

■ Infrared Remote Control Unit (29A-FX8)
红外线遥控器

RRMCG1497PESA

NOTE : The parts here shown are supplied as an assembly but not independently.
注意 ：在更换零件订货时，请以一套为最小单位，切勿以单件订货。

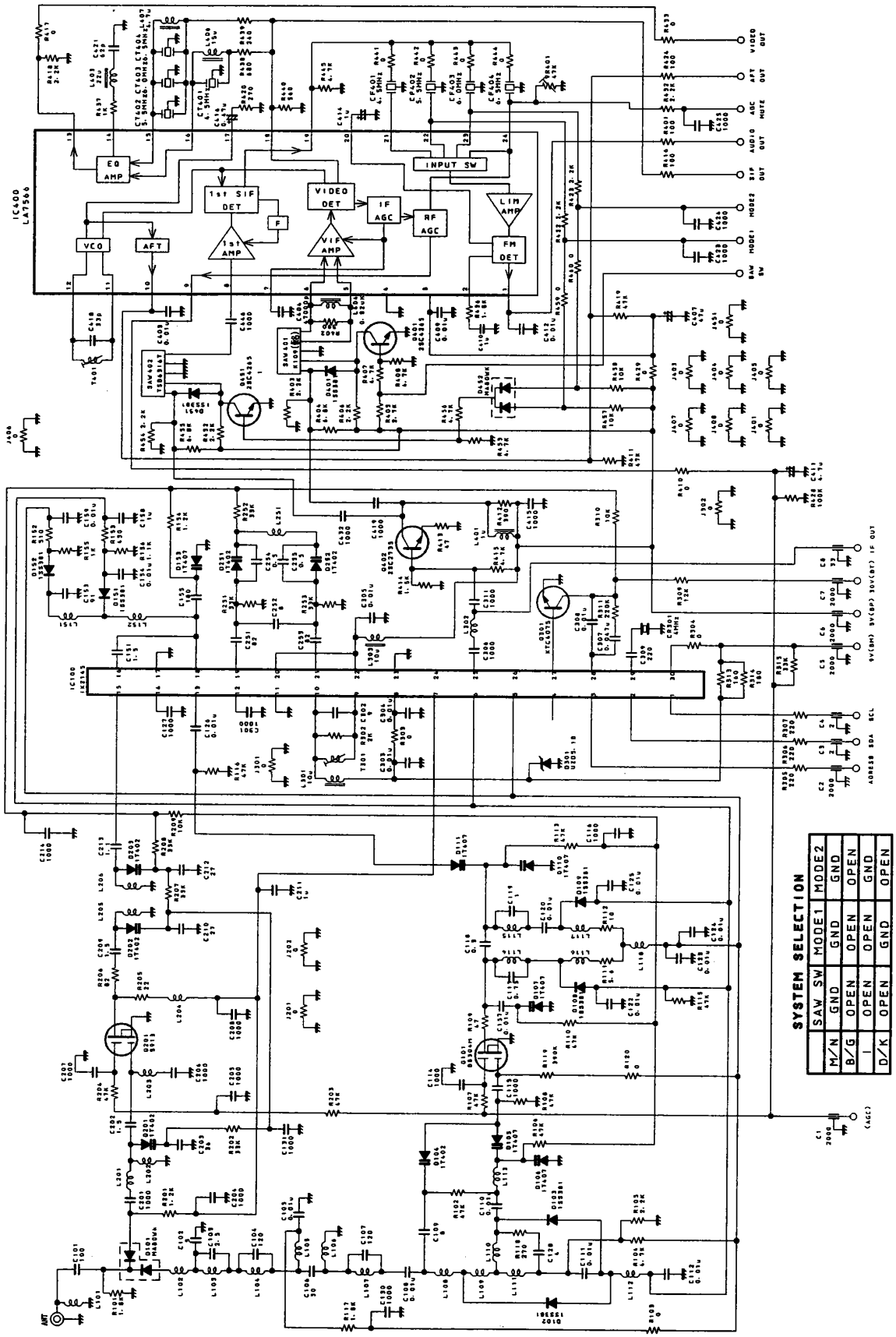


Key No.	Key name
K1	POWER
K2	SAVE
K3	CALL
K4	TV/VIDEO
K5	MUTE
K6	1
K7	2
K8	3
K9	ENTERTAINMENT
K10	4
K11	5
K12	6
K13	SPATIALIZER
K14	7
K15	8
K16	9
K17	MPX MODE
K18	⊟
K19	0
K20	///
K21	A(TEXT RED)
K22	B(TEXT GREEN)
K23	C(TEXT YELLOW)
K24	D(TEXT CYAN)
K25	VOL DOWN
K26	CH UP
K27	VOL UP
K28	CH DOWN
K29	NORMAL
K30	MENU

■ Tuner 调谐器

⚠ VTUVTBT6ER265

NOTE : The parts here shown are supplied as an assembly but not independently.
注意 ：在更换零件订货时，请以一套为最小单位，切勿以单件订货。



MODEL 29A-FX5 SCHEMATIC DIAGRAM: MAIN Unit -1

型号29A-FX5 电路原理图：主电路装置-1

MAIN1

PWB-A
(QPWBF9859PEN1)
(DUNTK9859WEW1)

IC451
CXA2069Q

IC402
M52055FP

Q407
D601A R

Q406
B709AR

Q453
D601AR

Q452
D601AR

Q451
D601AR

Q354
D601AR

Q353
D601AR

Q454
D601AR

Q351
D601AR

Q352
D601AR

Q201
D601AR

Q202
D601AR

Q203
B709AR

Q200
B709AR

Q1012
D601AR

Q1013
D601AR

SET UP

TU201
VTBT6ED265

R494
10
1/4W
R-XZ0026CEZZ
(Y-LEVEL)

M46200EZZ
(IK01)

PWB-J
DIG.COM
UNIT

SC401
N0785CE

SC402
N0785CE

SC5451
D0427CE

P1000
N0661CE

P400
N0861CE

J451
J0967CEZZ

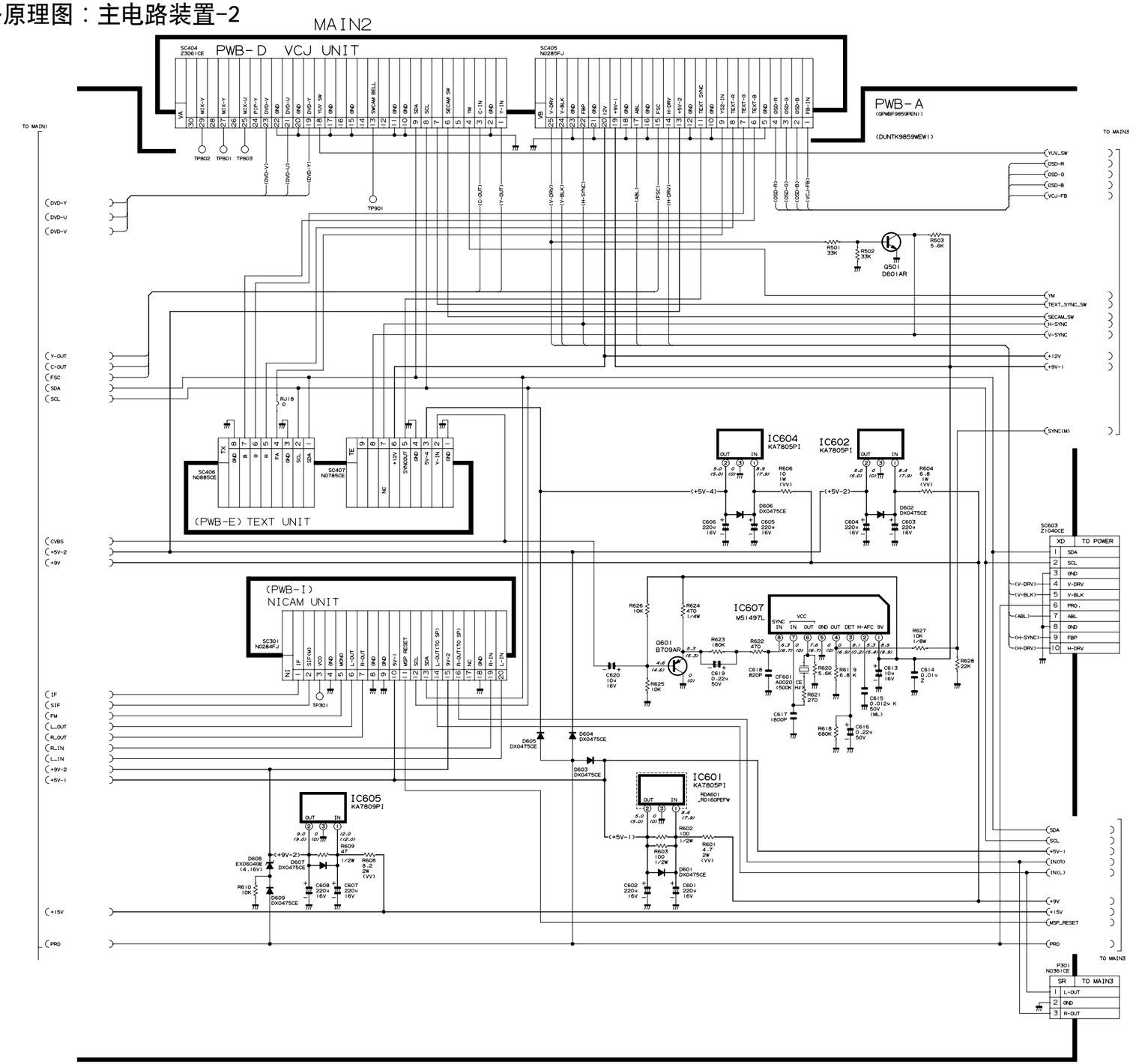
J452
J0527CEZZ

TO MAIN2

TO MAIN3

MODEL 29A-FX5 SCHEMATIC DIAGRAM: MAIN Unit -2

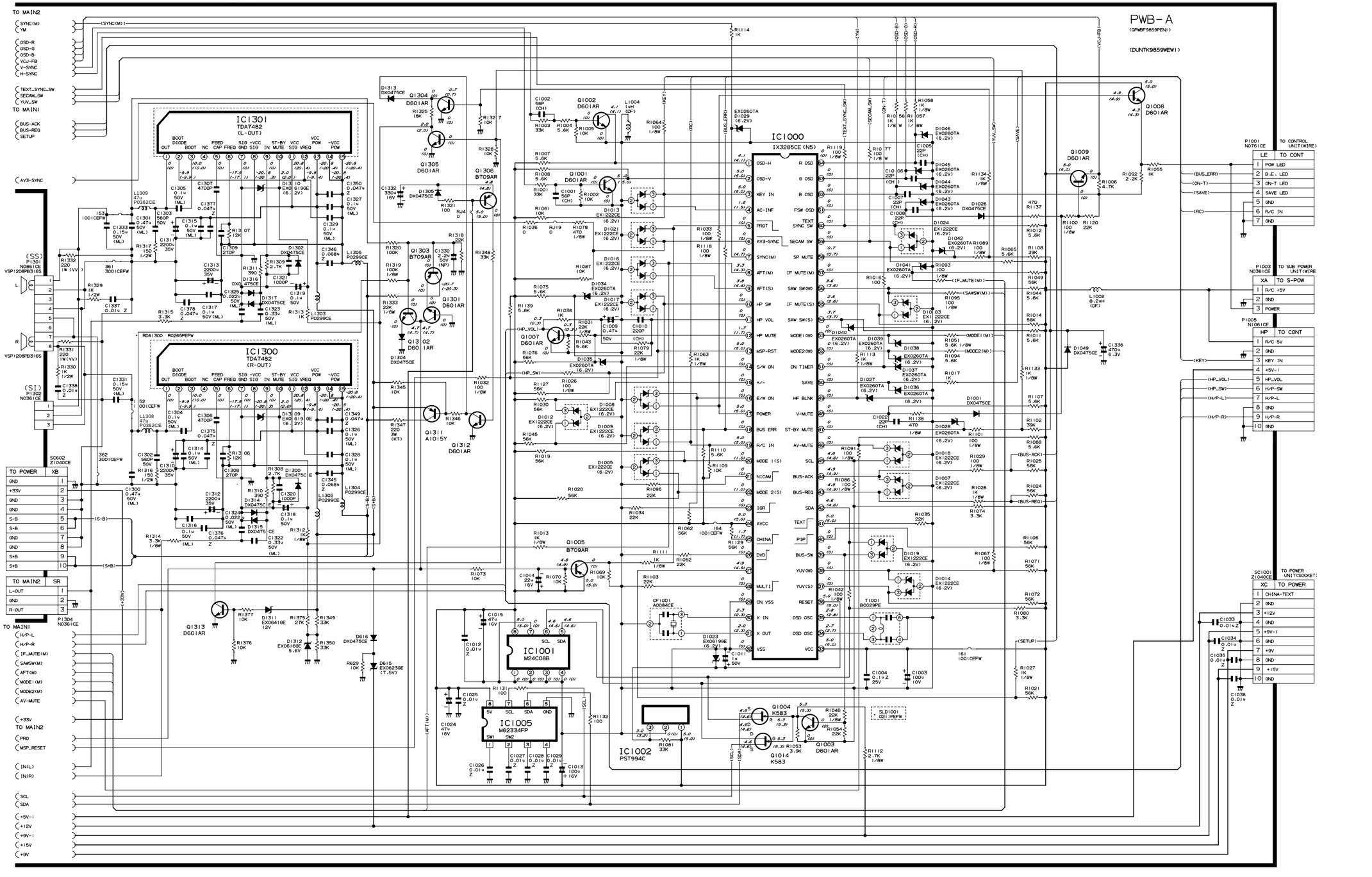
型号29A-FX5 电路原理图：主电路装置-2



MODEL 29A-FX5 SCHEMATIC DIAGRAM: MAIN Unit -3

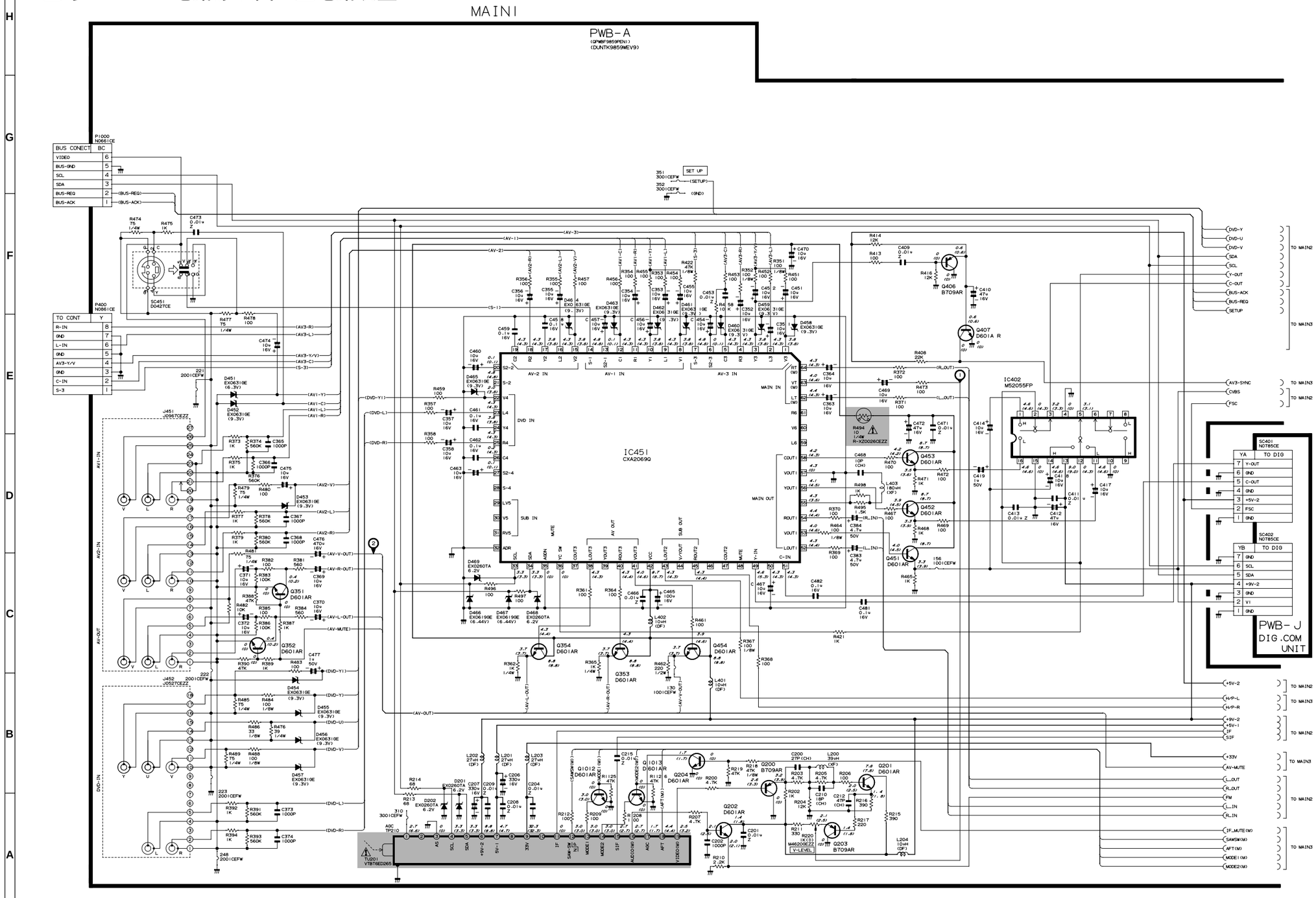
型号29A-FX5 电路原理图：主电路装置-3

MAIN3



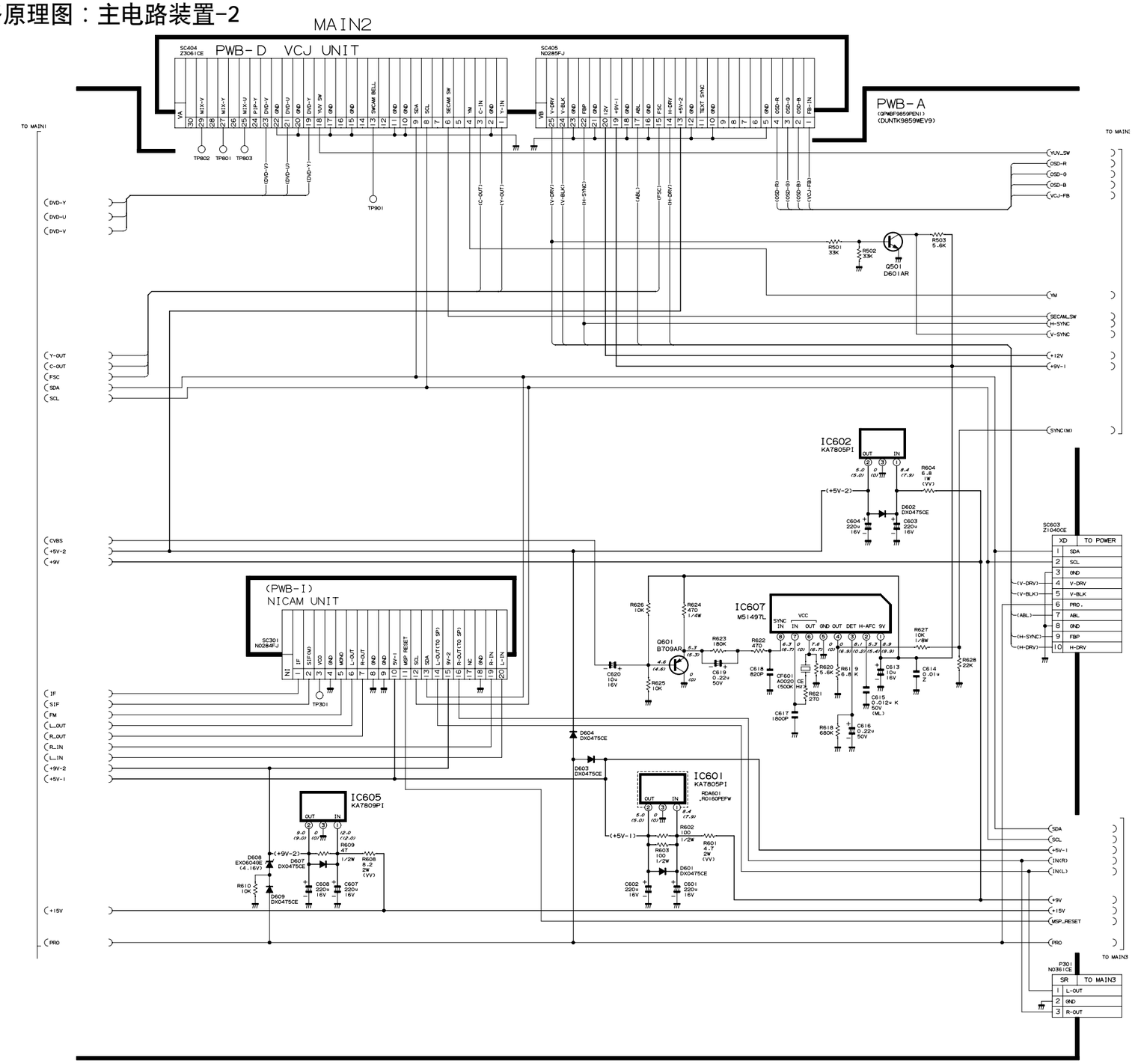
MODEL 29A-FX8 SCHEMATIC DIAGRAM: MAIN Unit -1

型号29A-FX8 电路原理图：主电路装置-1



MODEL 29A-FX8 SCHEMATIC DIAGRAM: MAIN Unit -2

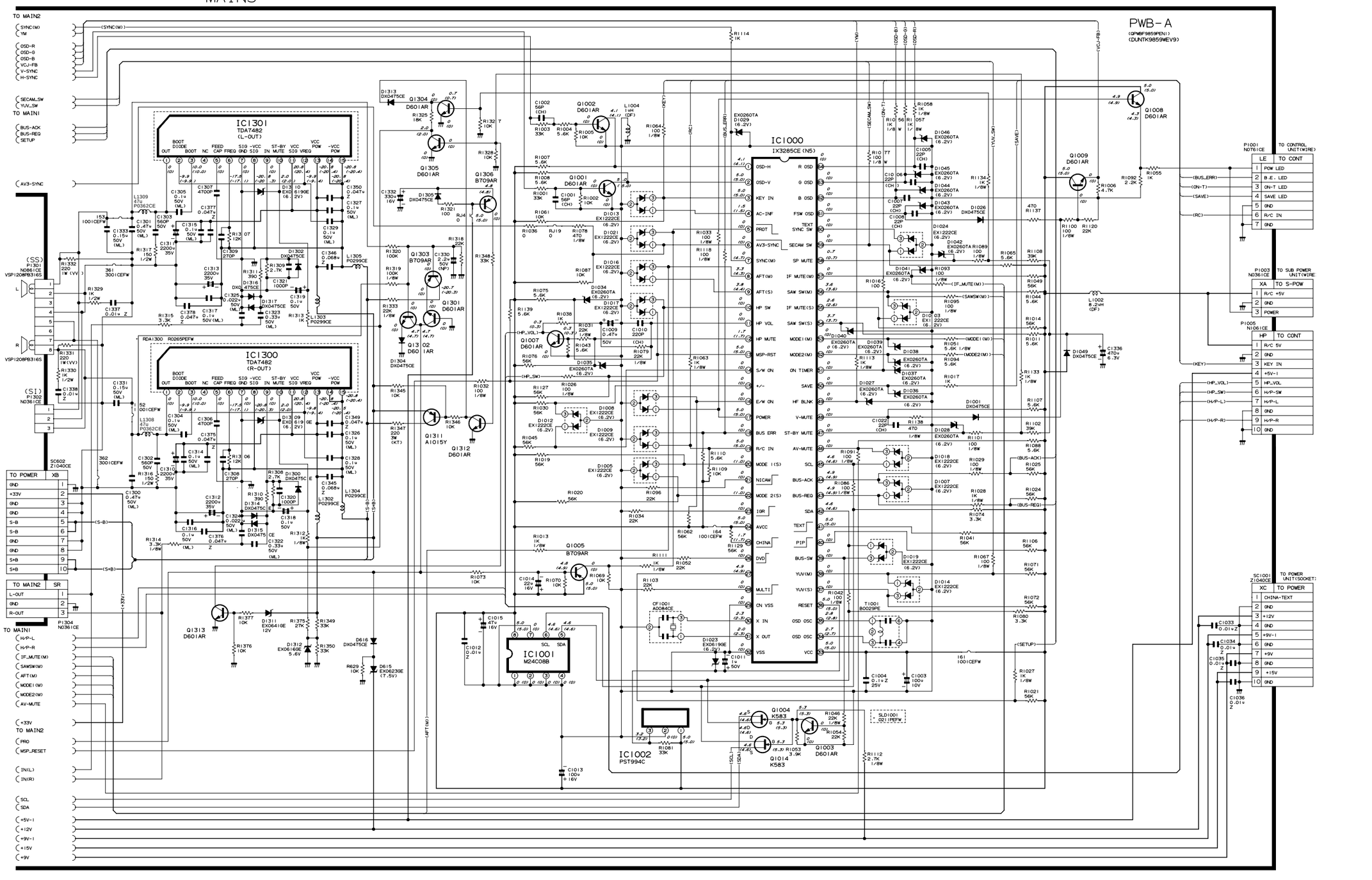
型号29A-FX8 电路原理图：主电路装置-2



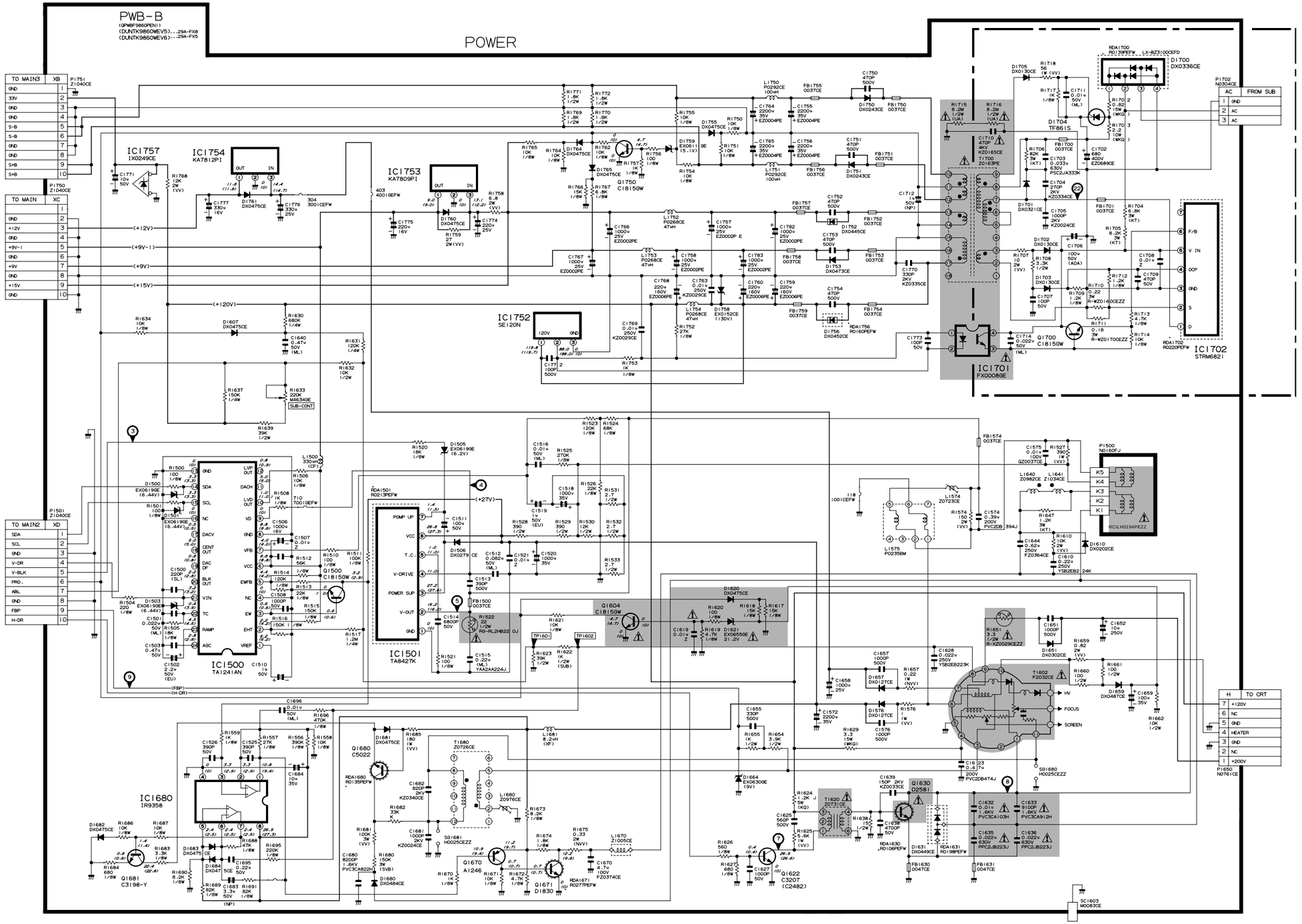
MODEL 29A-FX8 SCHEMATIC DIAGRAM: MAIN Unit -3

型号29A-FX8 电路原理图：主电路装置-3

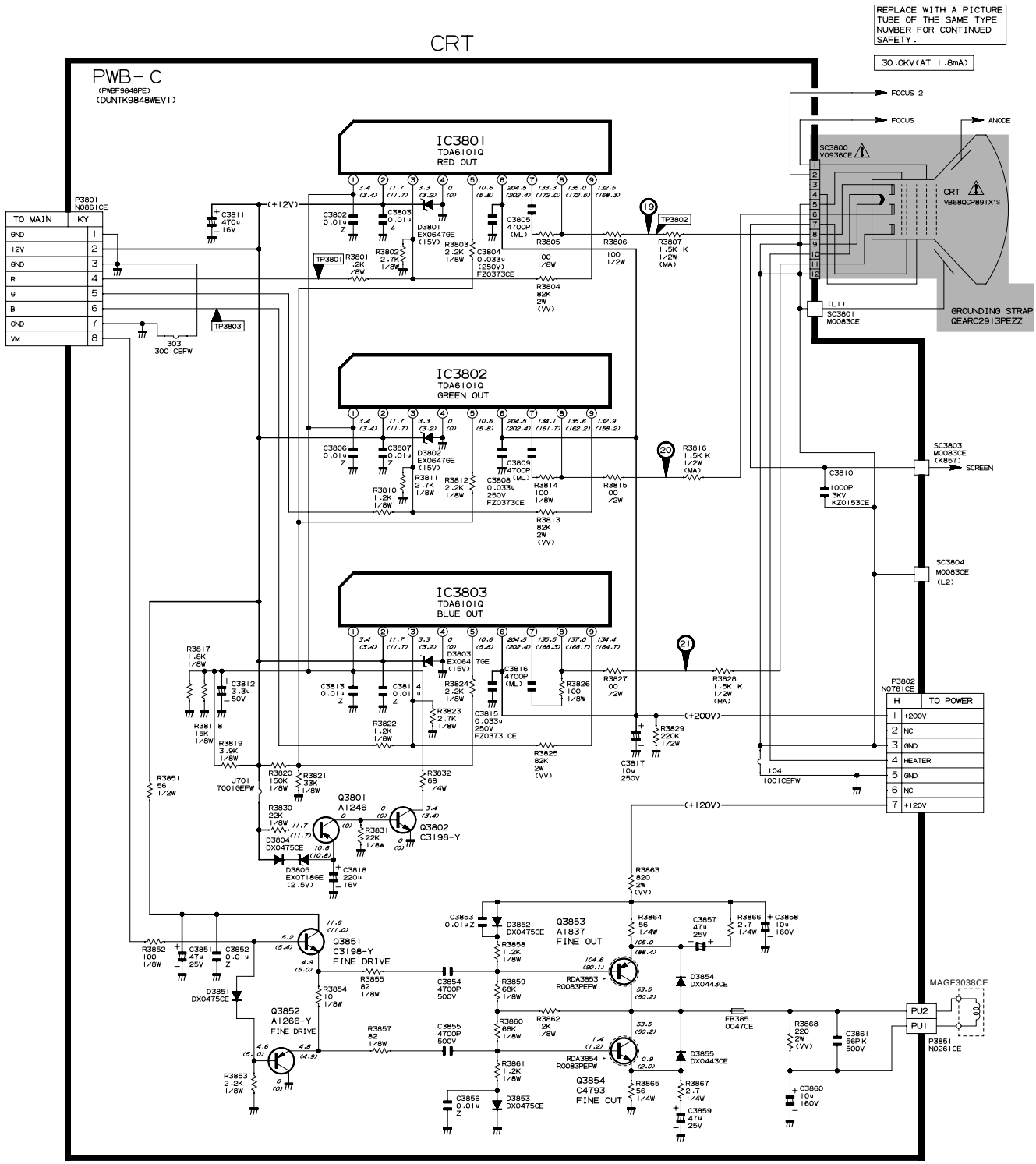
MAIN3



SCHEMATIC DIAGRAM: POWER Unit
电路原理图：电源电路装置

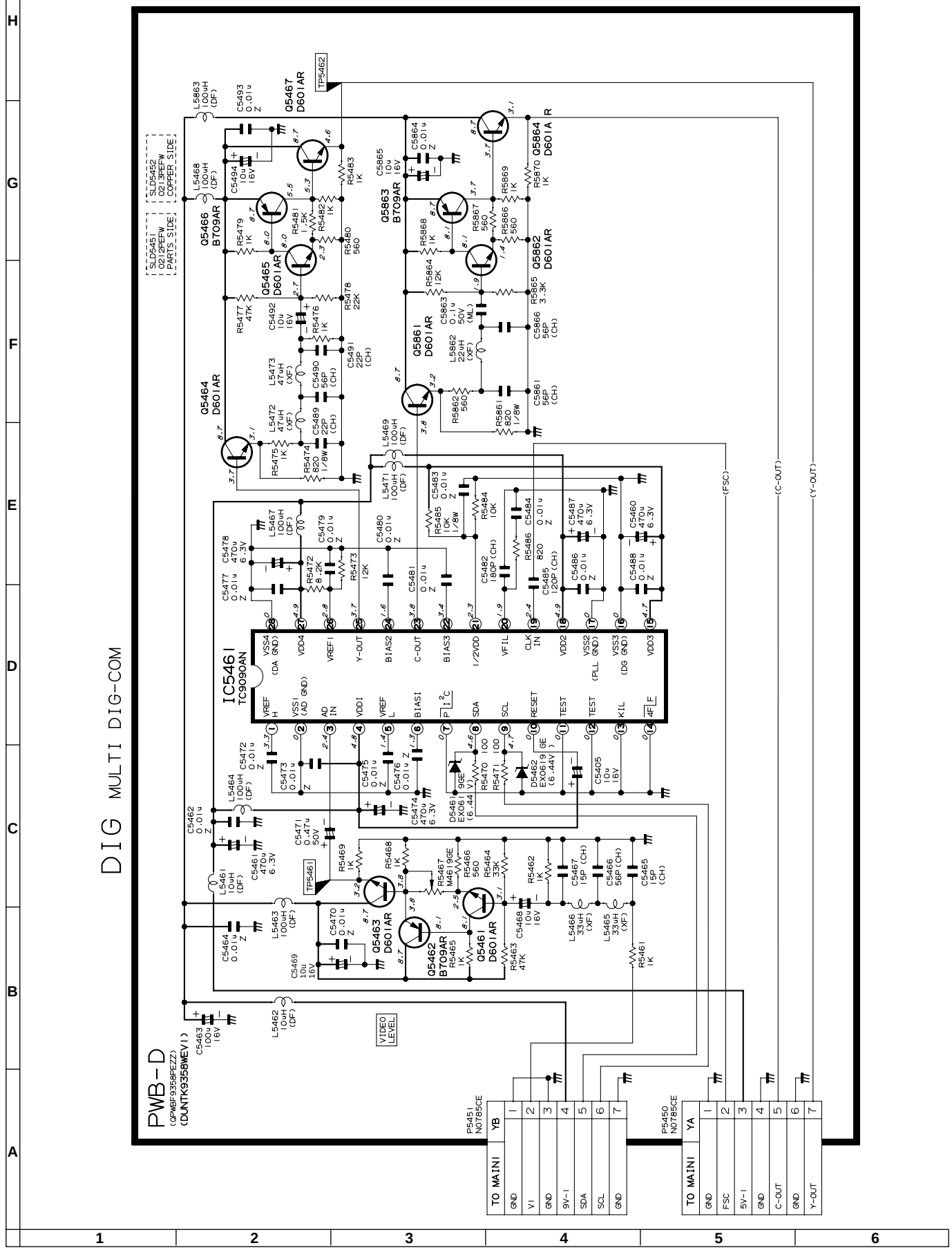


SCHEMATIC DIAGRAM: CRT Unit
电路原理图：CRT电路装置

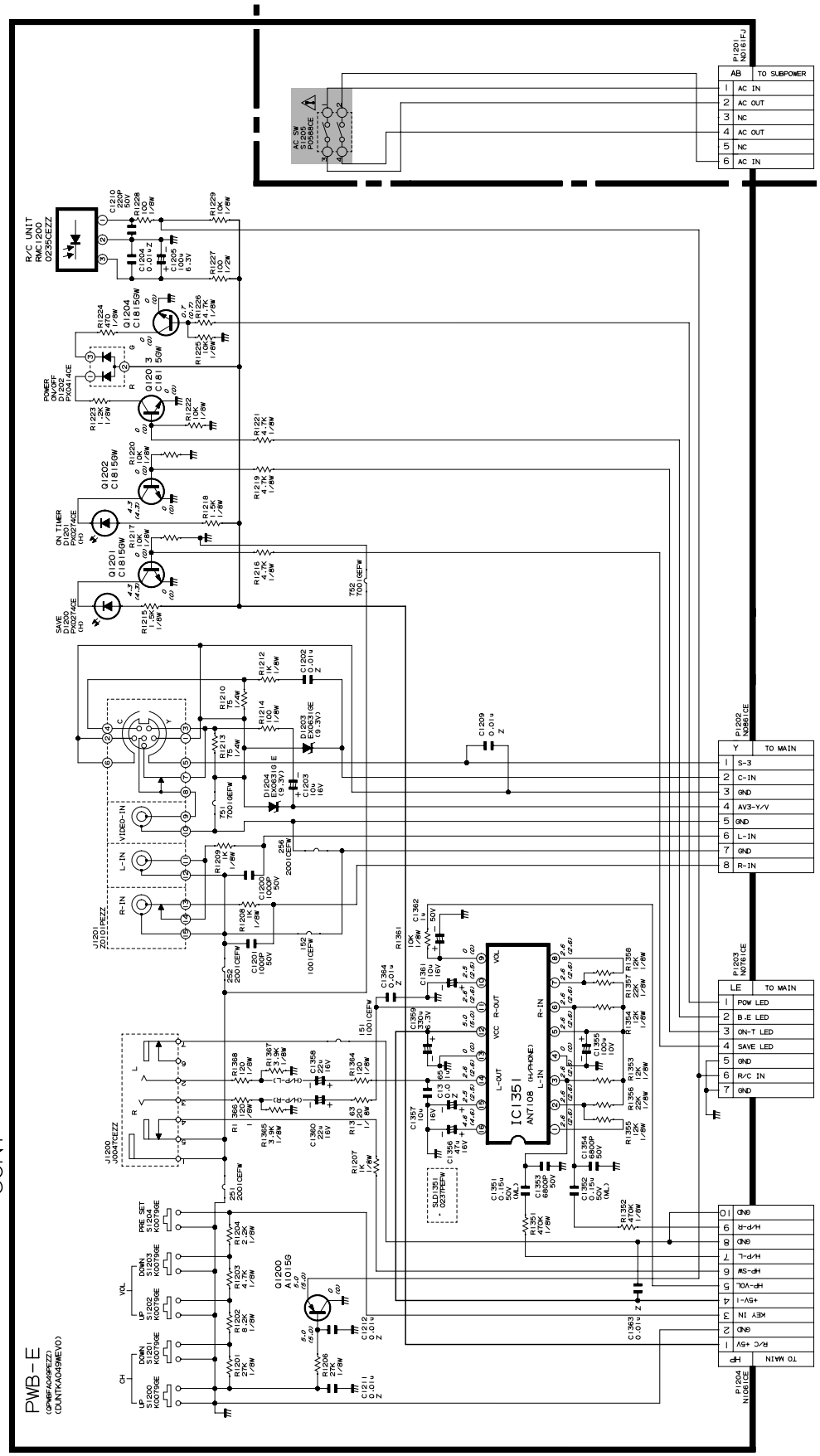


SCHEMATIC DIAGRAM: DIG COM Unit

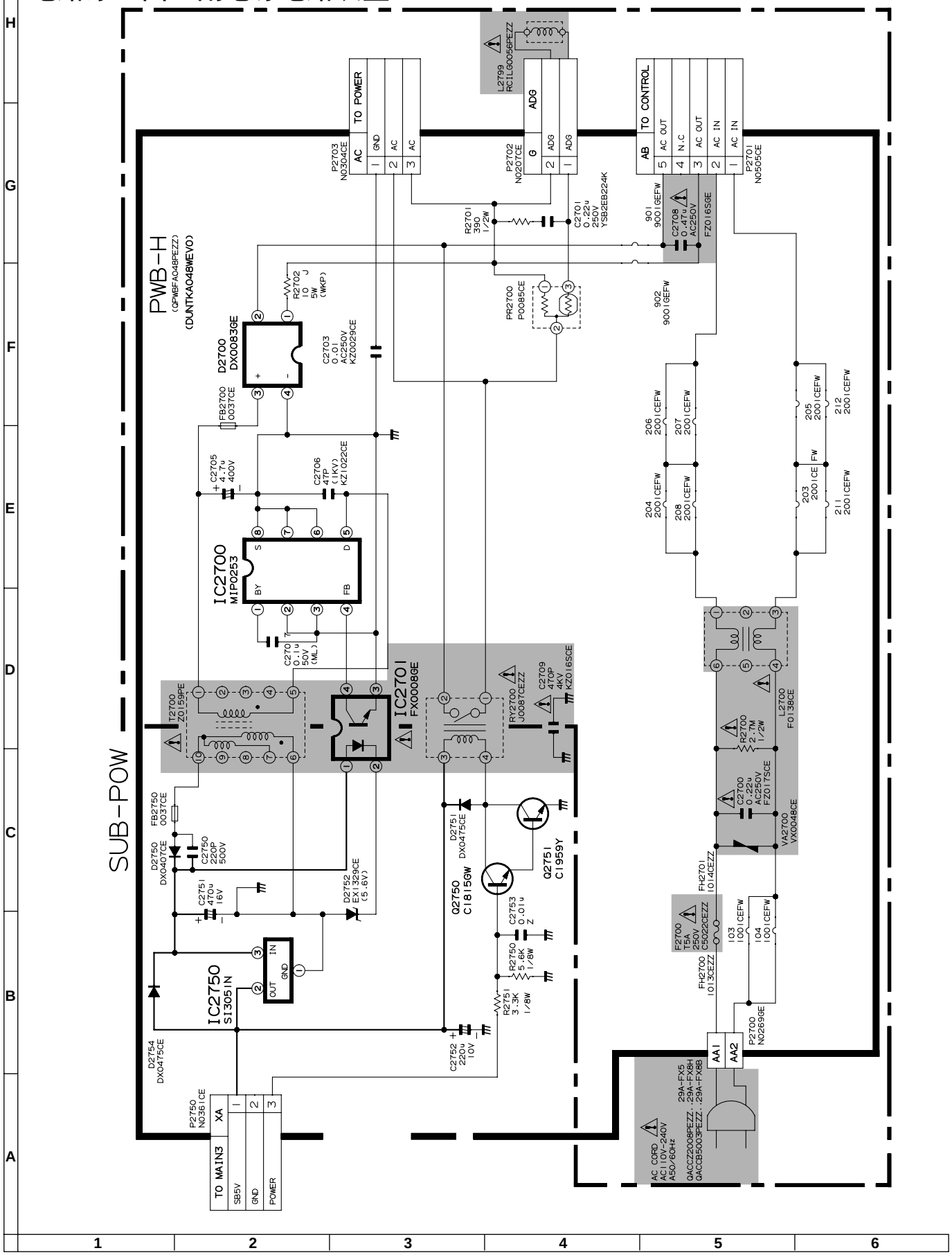
电路原理图：DIG COM电路装置



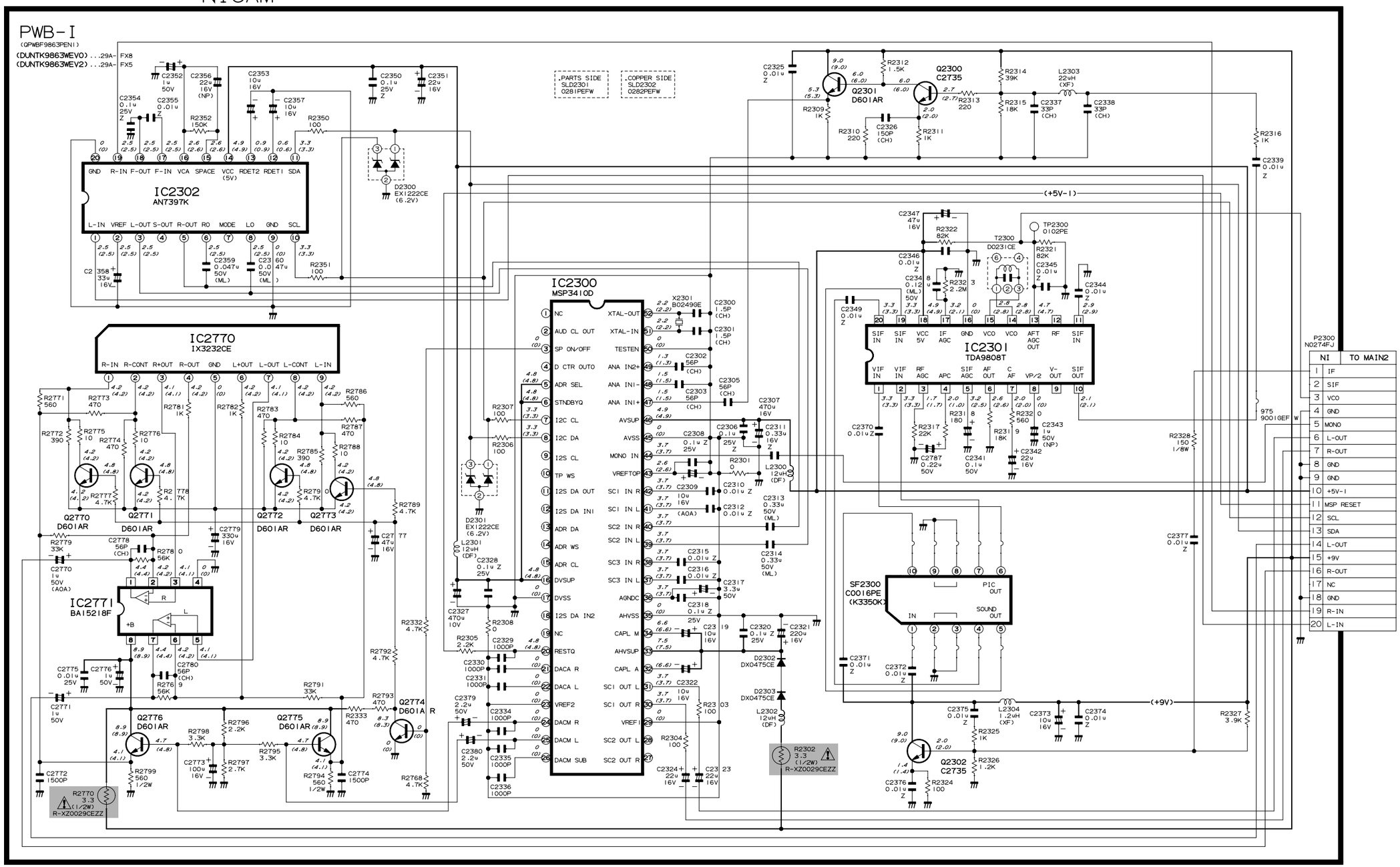
SCHEMATIC DIAGRAM: CONTROL Unit
电路原理图：操作电路装置



SCHEMATIC DIAGRAM: SUB POWER Unit
电路原理图：副电源电路装置

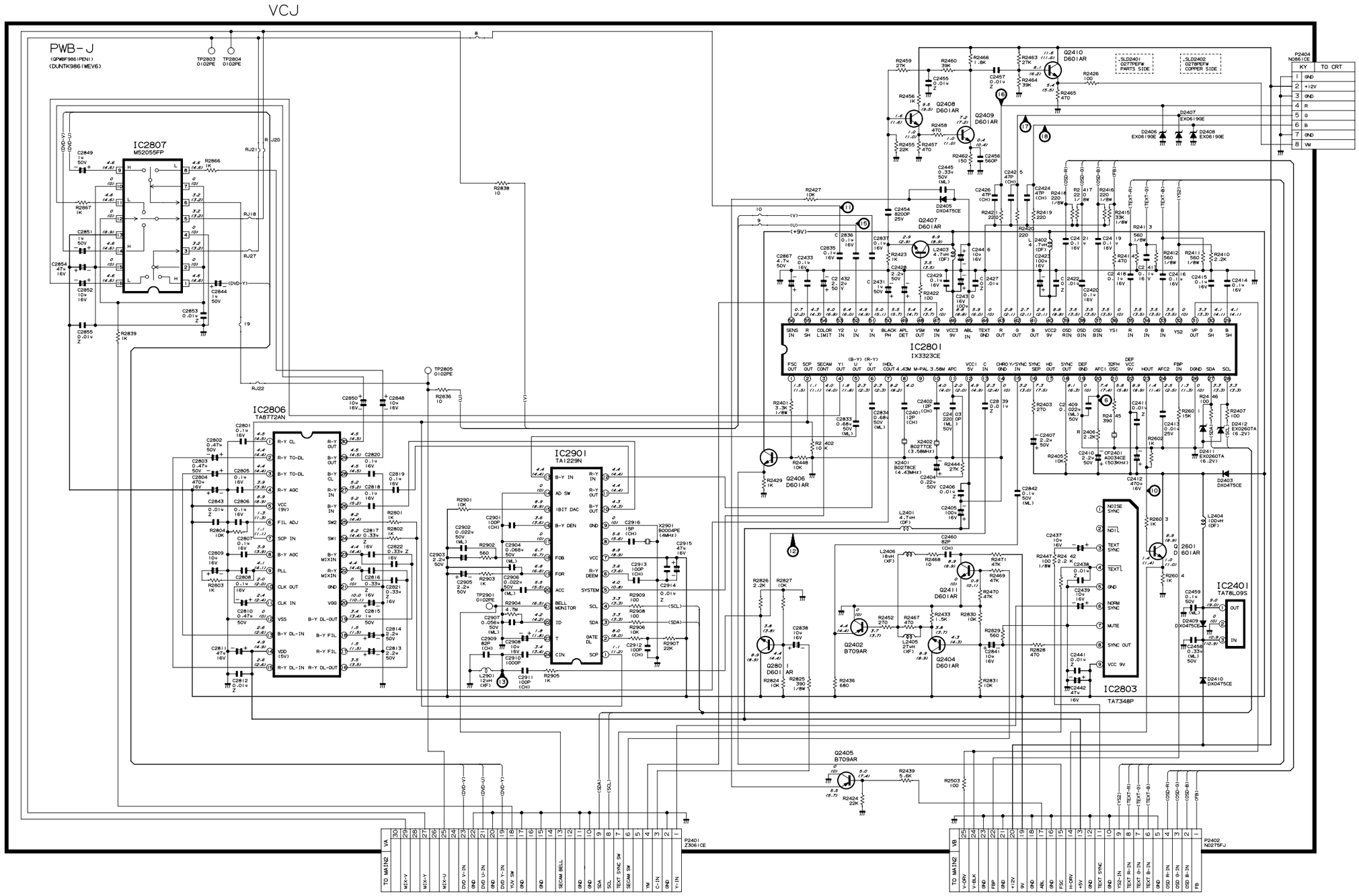


SCHEMATIC DIAGRAM: NICAM Unit
电路原理图：NICAM电路装置



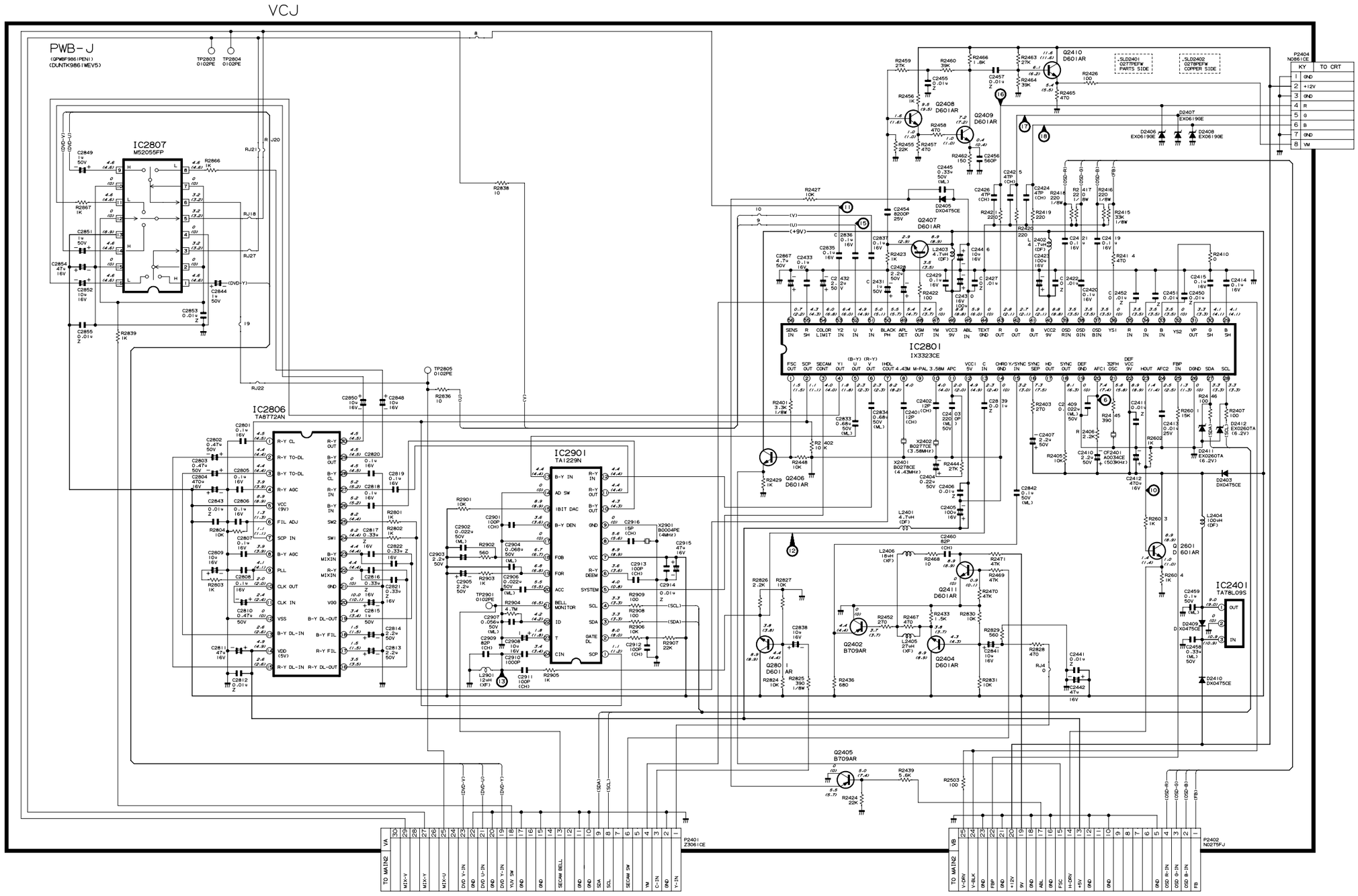
MODEL 29A-FX5 SCHEMATIC DIAGRAM: VCJ Unit

型号29A-FX5 电路原理图：VCJ电路装置



MODEL 29A-FX8 SCHEMATIC DIAGRAM: VCJ Unit

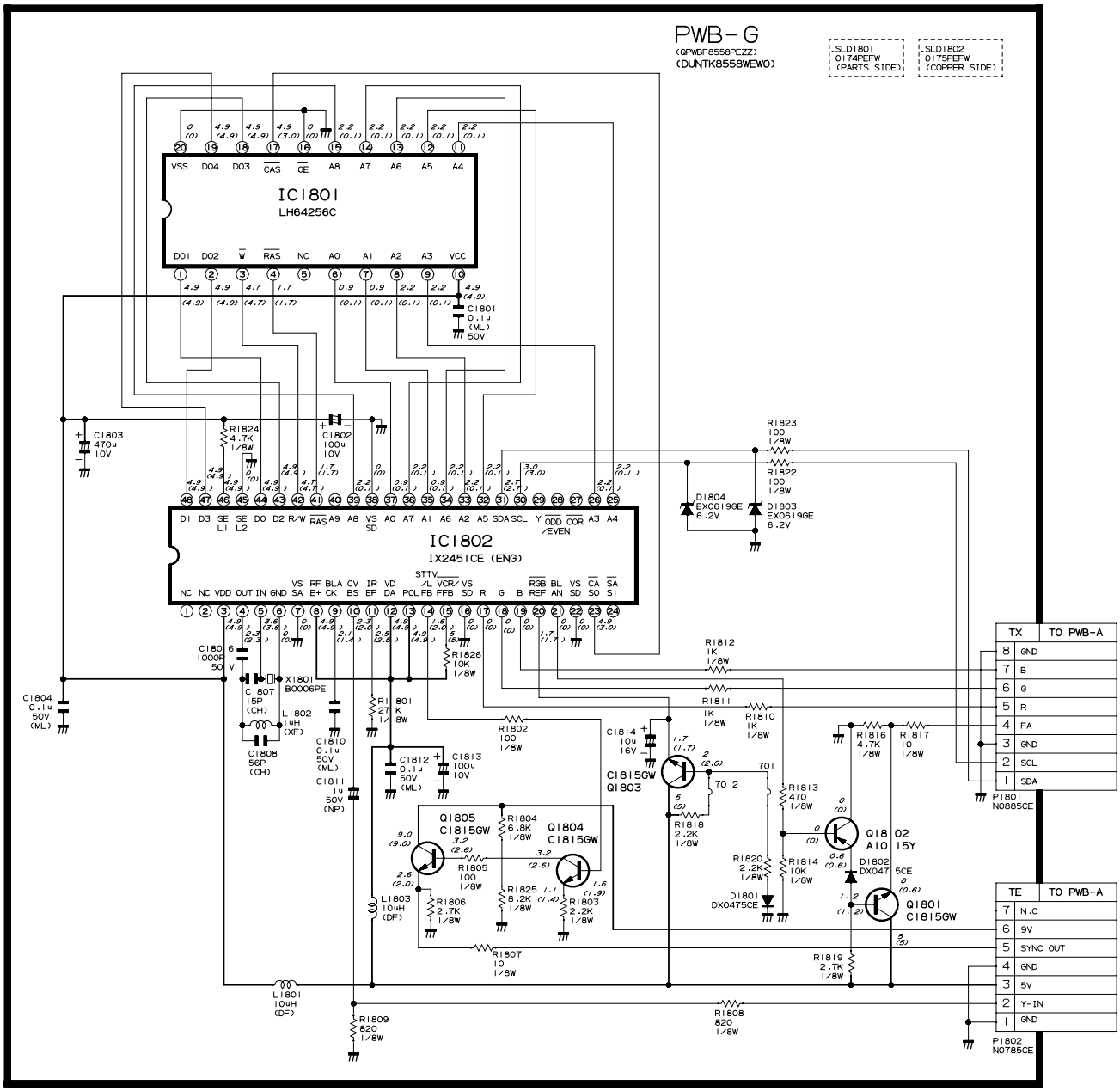
型号29A-FX8 电路原理图：VCJ电路装置



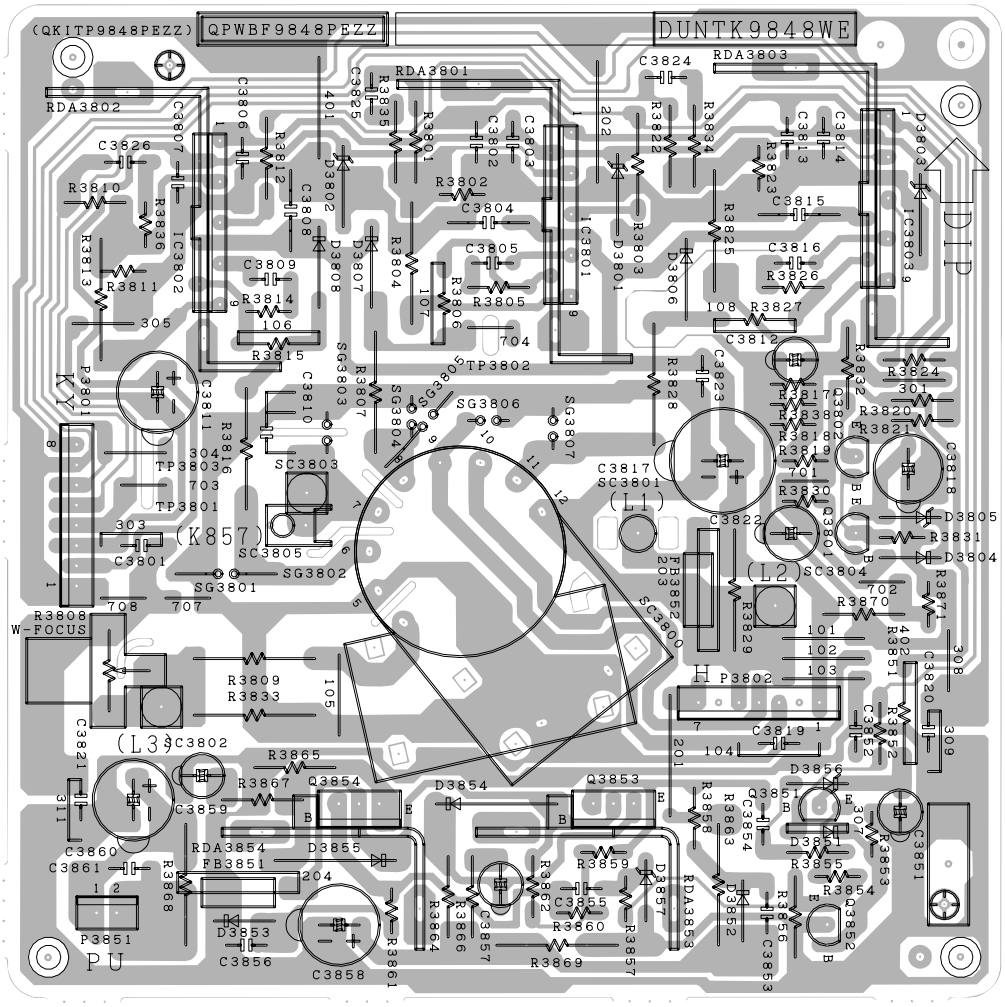
MODEL 29A-FX5 SCHEMATIC DIAGRAM: TEXT Unit

型号29A-FX5 电路原理图：TEXT电路装置

TEXT

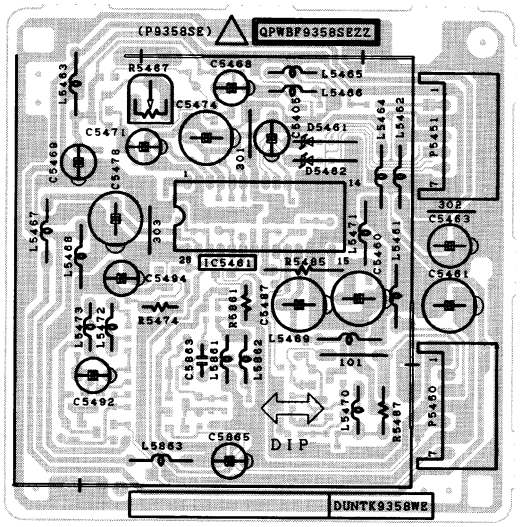


PRINTED WIRING BOARD ASSEMBLIES
印刷电路板组件



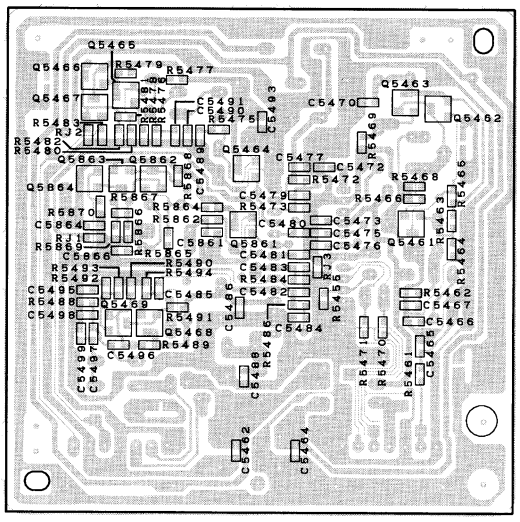
PWB-C: CRT Unit (Wiring Side)

CRT电路装置（线路贴置侧）



(Wiring Side)

（线路贴置侧）

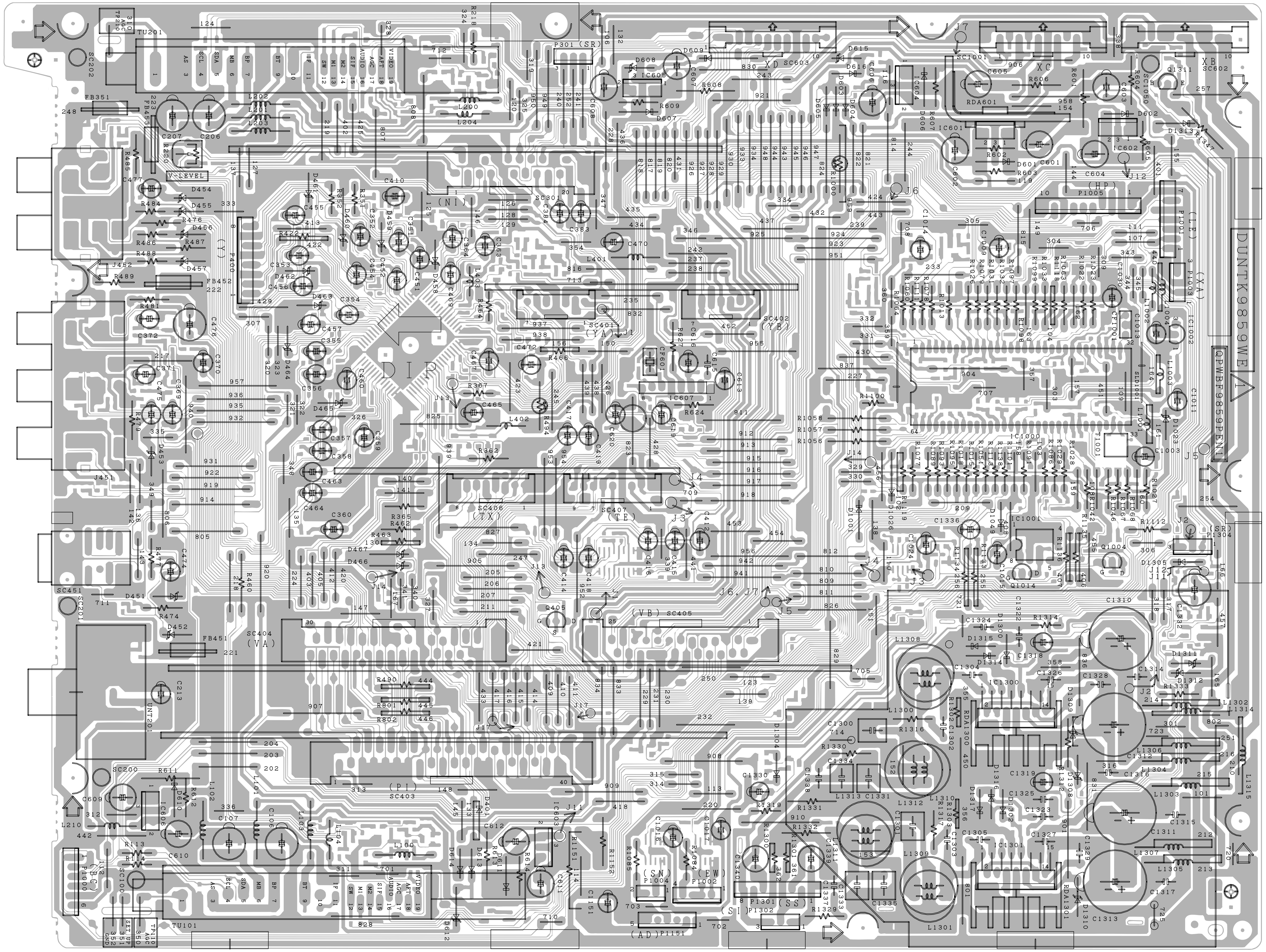


(Chip Parts Side)

（部件装备侧）

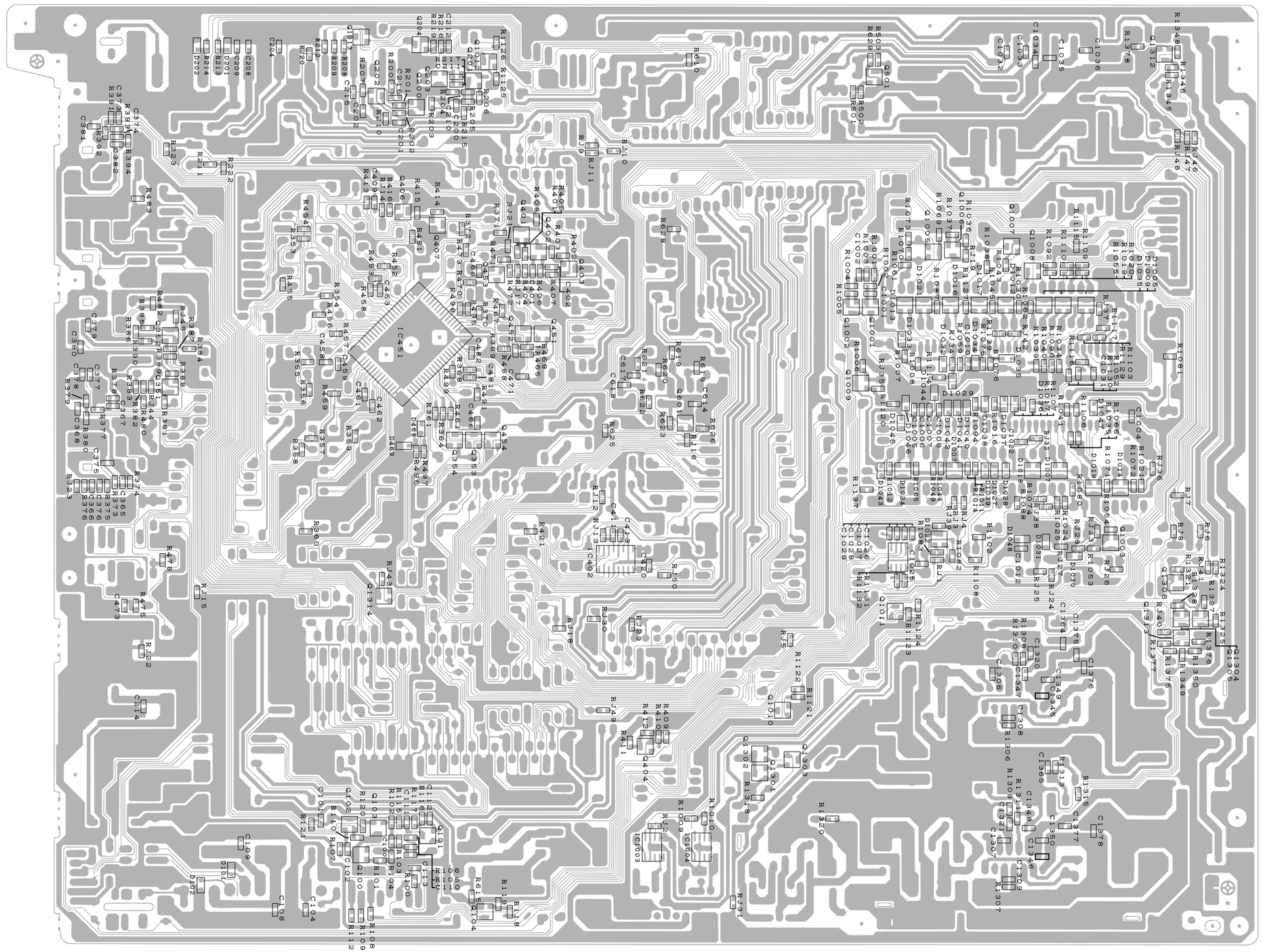
PWB-D: DIG. Unit

DIG. 电路装置


TU201
TU101
SC202
SC201
SC200
SC100
SC451
J451
J452
UNT201
V-LEVEL
(Y)
P400
(NI)
SC301
P301 (SR)
IC605
XD
SC603
XC
SC1001
XB
SC602
RDA601
IC601
IC602
(HP)
P1005
(LE)
P1001
(XA)
P1003
DUNTK9859WE
QPWBF9859PEN1
IC1002
IC1000
IC1001
T1001
SC401
(YA)
SC402
(YB)
IC607
SC406
(TX)
SC407
(TE)
SC405
(VB)
SC404
(VA)
SC403
(PI)
IC603
IC606
(BC)
P1000
(SN)
P1004
(EW)
P1002
P1301
(SS)
(SI)
P1302
(AD)
P1151
IC1300
IC1301
RDA1300
RDA1301
(SR)
P1304
DIP

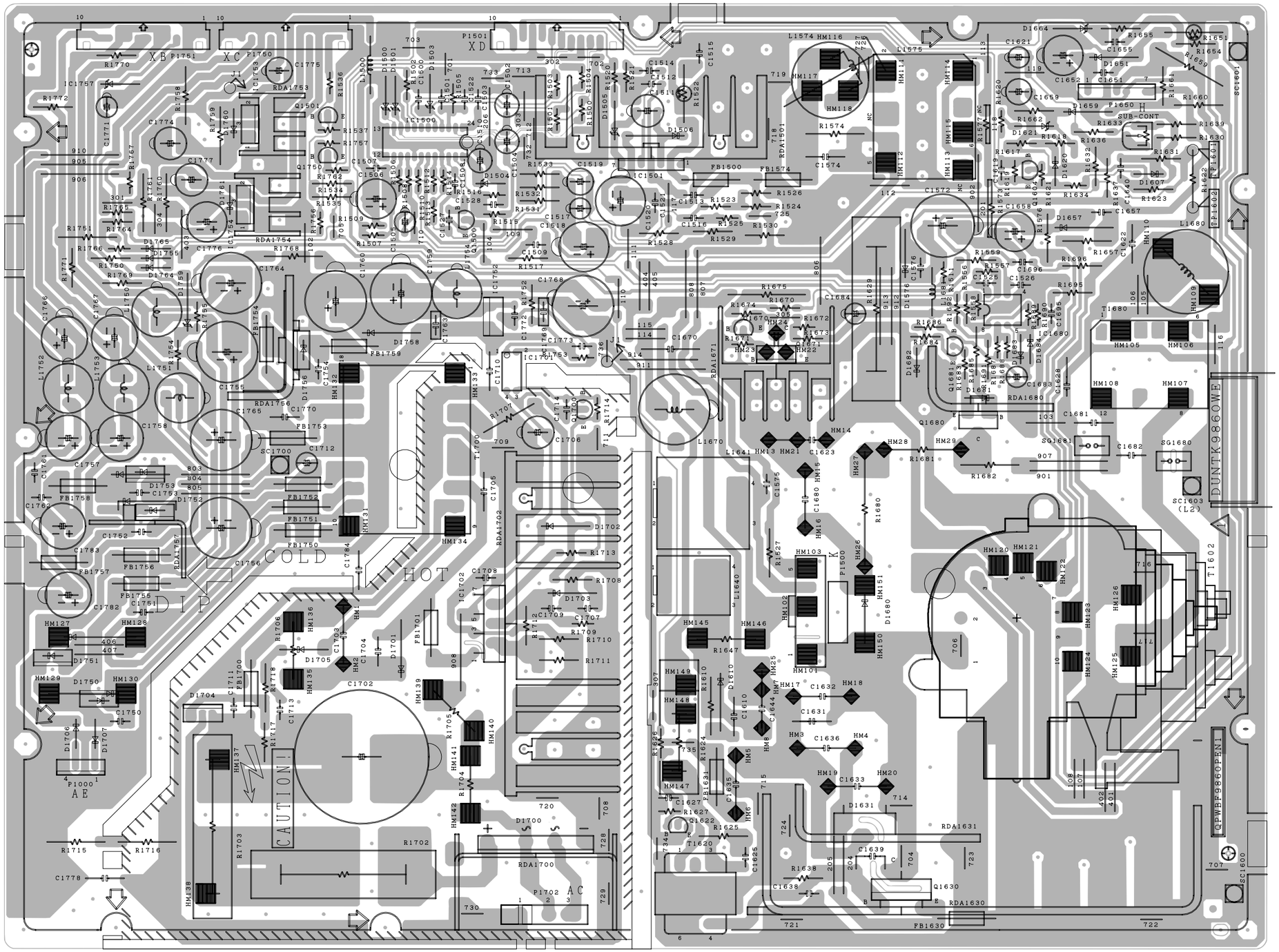
PWB-A: MAIN Unit (Wiring Side)

主电路装置（线路贴置侧）



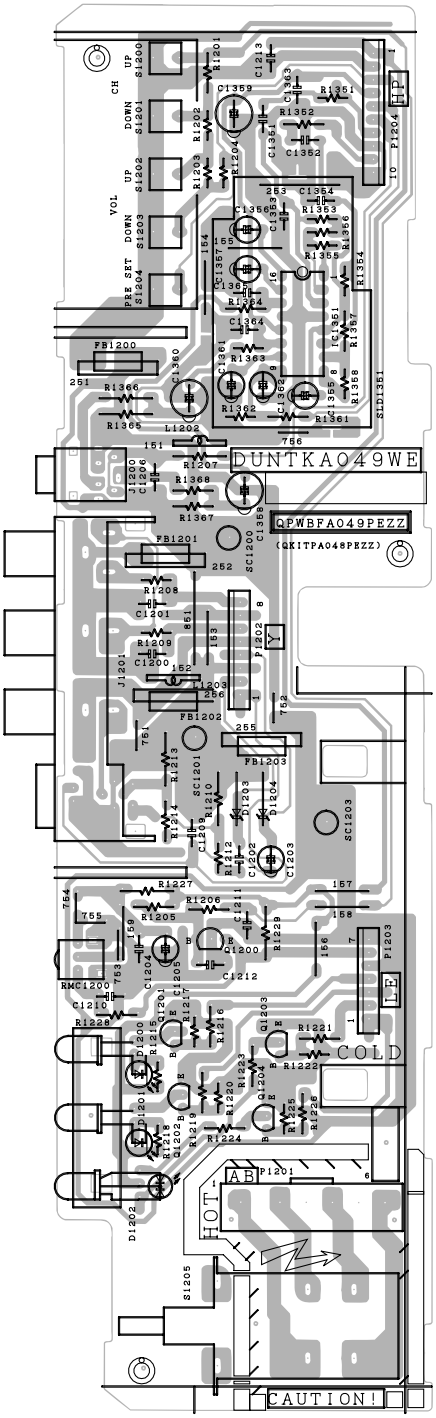
PWB-A: MAIN Unit (Wiring Side)(Chip Parts)

主电路装置（线路贴置侧）(部件装备）



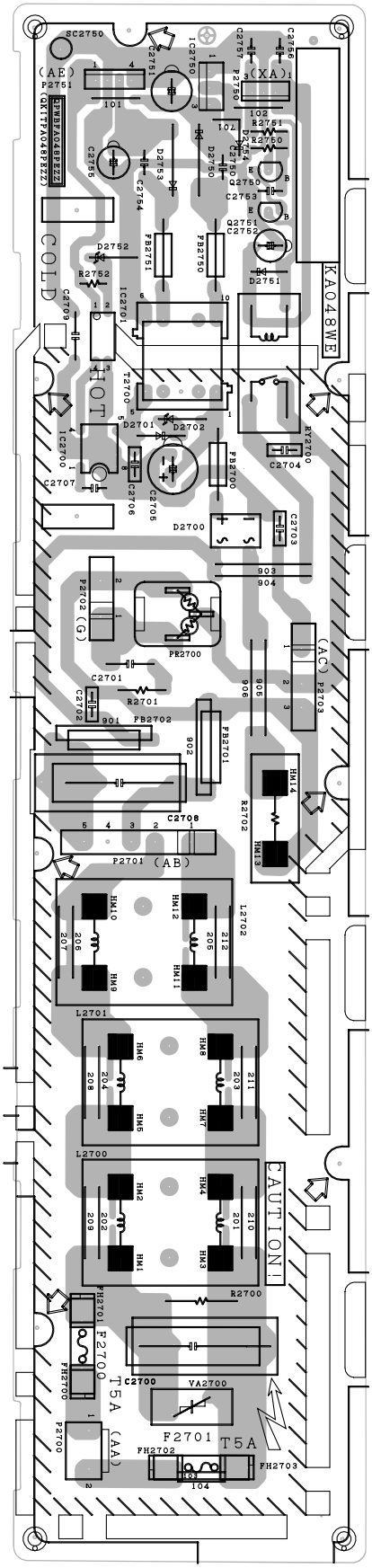
PWB-B: POWER Unit (Wiring Side)

电源电路装置（线路贴置侧）



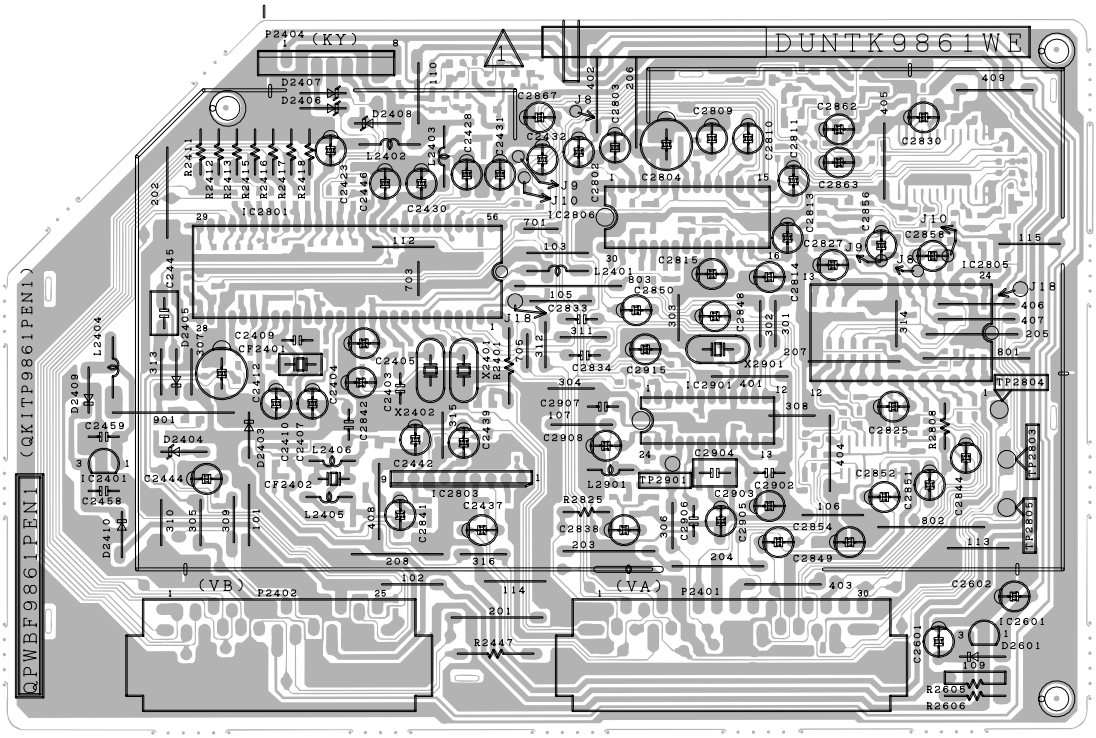
PWB-E: CONTROL Unit (Wiring Side)

操作电路装置（线路贴置侧）



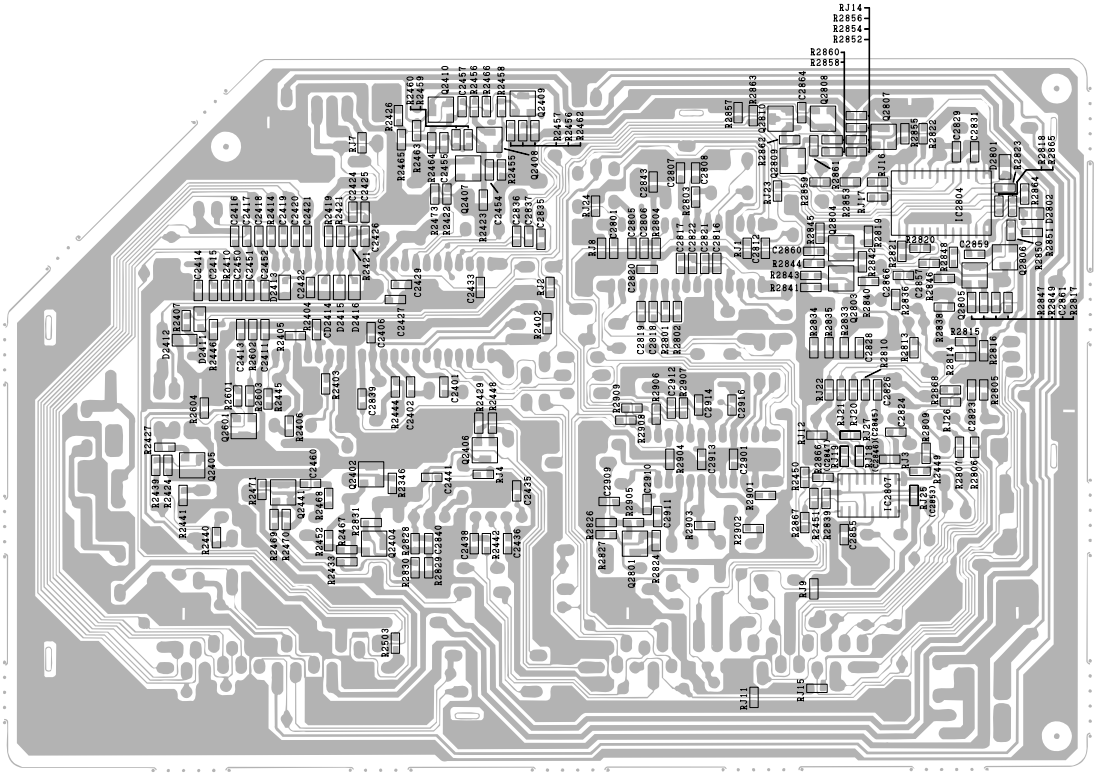
PWB-H: SUB POWER Unit (Wiring Side)

副电源电路装置（线路贴置侧）



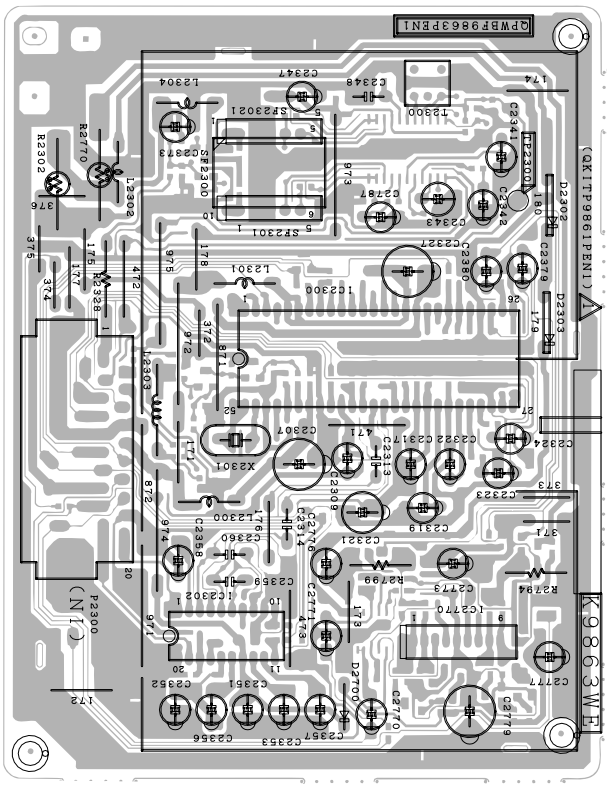
PWB-I: NICAM Unit (Wiring Side)

NICAM电路装置（线路贴置侧）

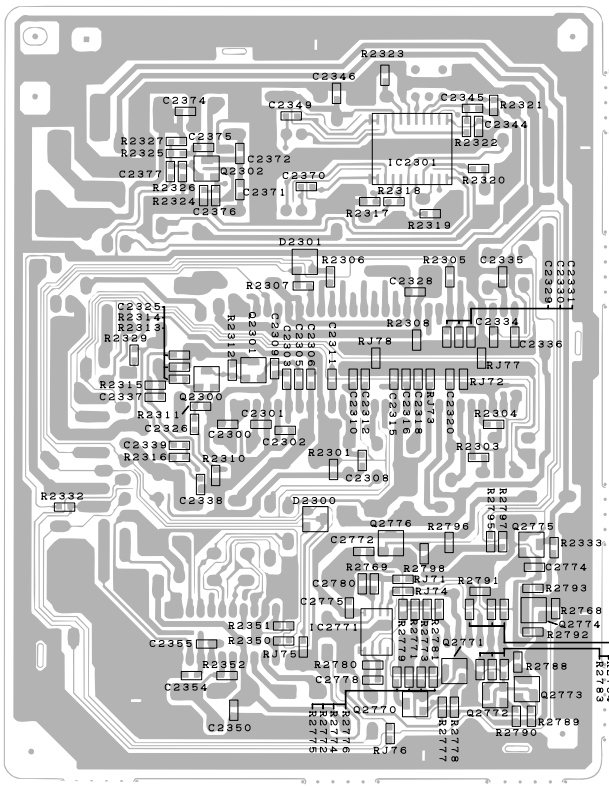


PWB-I: NICAM Unit (Wiring Side)(Chip Parts)

NICAM电路装置（线路贴置侧）(部件装备）



(Wiring Side)
（线路贴置侧）

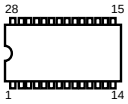


(Wiring Side)(Chip Parts)
（线路贴置侧）(部件装备侧）

PWB-J: VCJ Unit
VCJ 电路装置

SOLID STATE DEVICE BASE DIAGRAM
固体器件基座图

TOP VIEW 俯视图



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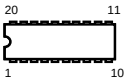

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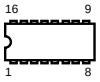
VHiAN7397K/-1



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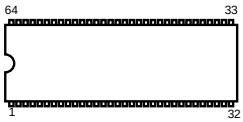
VHiTA8772AN-1



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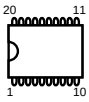
RH-iX2451CEZZ



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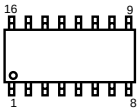
RH-iX0249CEZZ



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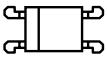
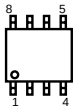
RH-DX0083GEZZ



RH-FX0008GEZZ



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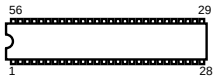

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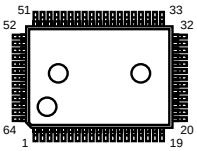

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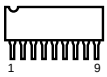
VHiBA15218F-1
VHiMiP0253/-1



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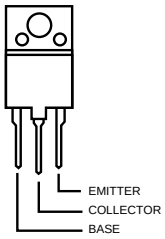
VHiTA1241AN-1
VHiTA1229N/-1

SIDE VIEW 侧视图



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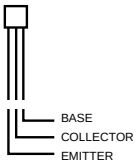
VS2SC5022//1E
VS2SD1830//1E
VS2SD2581//1E
RH-DX0449CEZZ
VS2SA1837//-1



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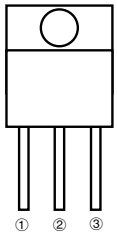
VS2SA1015Y/1E
VS2SC1815GW-1



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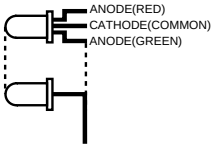
VHiKA7809Pi-1
VHiKA7812Pi-1
VHiSE120N//-1



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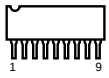

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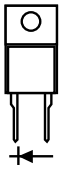

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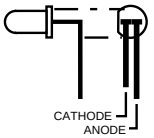

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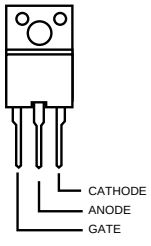

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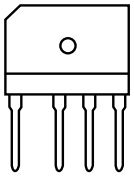

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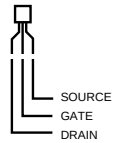

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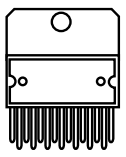

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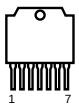

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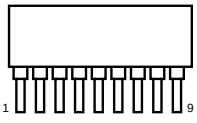
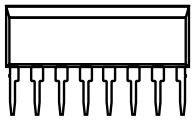
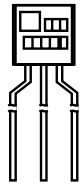


RH-iX3232CEZZ



VHiM51497L/-1



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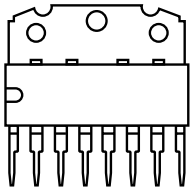

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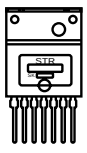

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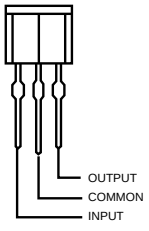


VHiTA78L09S-1

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

MARK ★: SPARE PARTS-DELIVERY SECTION

更换零件表

更换零件

本维修手册对具有特别安全要求的零件均用标记加以识别：
在此更换零件表中，具有特别安全要求的电路元件均用 ⚠ 标记，以便注意识别。更换零件时，为了用户的安全以及电视机原有的工作性能，务请使用夏普规定零件。否则，可能有导致触电、火灾或其他不测事故发生的可能。

更换零件的订货方法

为了能迅速而确实地接受订货、以及正确无误地按时交货，在订货时请将下列各项明确告知。

1. 型号
2. 参考编号
3. 零件编号
4. 零件名称
5. 代号
6. 数量

附★记号为备用部件的交货部门

Ref. No.	Part No.	★	Description	Code
PICTURE TUBE				
⚠	VB68QCP891X*S	R	Picture Tube	
⚠ L2799	RCiLG0056PEZZ	J	Degaussing Coil	AS
	PMAGF3038CEZZ	R	Magnet	AL
	PMAGG3002CEZZ	R	Magnet	AC
⚠	QEARC2913PEZZ	J	Grounding Strap	AK
PRINTED WIRING BOARD ASSEMBLIES *(NOT REPLACEMENT ITEM)*				
PWB-A	DUNTK9859WEW1	–	MAIN Unit (29A-FX5)	—
PWB-A	DUNTK9859WEV9	–	MAIN Unit (29A-FX8)	—
PWB-B	DUNTK9860WEV6	–	POWER Unit (29A-FX5)	—
PWB-B	DUNTK9860WEV5	–	POWER Unit (29A-FX8)	—
PWB-C	DUNTK9848WEV1	–	CRT Unit	—
PWB-D	DUNTK9358WEV1	–	DIG. COM. Unit	—
PWB-E	DUNTKA049WEV0	–	CONTROL Unit	—
PWB-G	DUNTK8558WEW0	–	TEXT Unit (29A-FX5)	—
PWB-H	DUNTKA048WEV0	–	SUB POWER Unit	—
PWB-I	DUNTK9863WEV2	–	NICAM Unit (29A-FX5)	—
PWB-I	DUNTK9863WEV0	–	NICAM Unit (29A-FX8)	—
PWB-J	DUNTK9861WEV6	–	VCJ Unit (29A-FX5)	—
PWB-J	DUNTK9861WEV5	–	VCJ Unit (29A-FX8)	—
PWB-A	**DUNTK9859WEW1/V9**		**MAIN UNIT**	
TUNER				
	NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.			
⚠ TU201	VTUVTBT6ED265		VHF Tuner	BH
INTEGRATED CIRCUITS				
IC402	VHiM52055FP-1	R	M52055FP	AH
IC451	VHiCXA2069Q-1	R	CXA2069Q	AR
IC601	VHiKA7805Pi-1	J	KA7805PI	AE
IC602	VHiKA7805Pi-1	J	KA7805PI	AE
IC604	VHiKA7805Pi-1	J	KA7805PI (29A-FX5)	AE
IC605	VHiKA7809Pi-1	J	KA7809PI	AE
IC607	VHiM51497L/-1	R	M51497L	AL
IC1000	RH-iX3285CEN5	R	I.C.	
IC1001	VHiM24C08B/-1	R	M24C08	AM
IC1002	VHiPST994C/-1	R	PST994C	AD
IC1005	VHiM62334FP-1	R	M62334FP (29A-FX5)	AH
IC1300	VHiTDA7482/-1	R	TDA7482	AR
IC1301	VHiTDA7482/-1	R	TDA7482	AR
TRANSISTORS				
Q200	VS2SB709AR/-1	R	2SB709AR	AC
Q201	VS2SD601AR/-1	R	2SD601AR	AC
Q202	VS2SD601AR/-1	R	2SD601AR	AC
Q203	VS2SB709AR/-1	R	2SB709AR	AC
Q204	VS2SD601AR/-1	R	2SD601AR	AC
Q351	VS2SD601AR/-1	R	2SD601AR	AC
Q352	VS2SD601AR/-1	R	2SD601AR	AC
Q353	VS2SD601AR/-1	R	2SD601AR	AC
Q354	VS2SD601AR/-1	R	2SD601AR	AC
Q406	VS2SB709AR/-1	R	2SB709AR	AC
Q407	VS2SD601AR/-1	R	2SD601AR	AC
Q451	VS2SD601AR/-1	R	2SD601AR	AC
Q452	VS2SD601AR/-1	R	2SD601AR	AC
Q453	VS2SD601AR/-1	R	2SD601AR	AC
Q454	VS2SD601AR/-1	R	2SD601AR	AC
Q501	VS2SD601AR/-1	R	2SD601AR	AC
Q601	VS2SB709AR/-1	R	2SB709AR	AC
Q1001	VS2SD601AR/-1	R	2SD601AR	AC
Q1002	VS2SD601AR/-1	R	2SD601AR	AC
Q1003	VS2SD601AR/-1	R	2SD601AR	AC
Q1004	VS2SK583///-1	R	2SK583	AE
Q1005	VS2SB709AR/-1	R	2SB709AR	AC
Q1007	VS2SD601AR/-1	R	2SD601AR	AC
Q1008	VS2SD601AR/-1	R	2SD601AR	AC
Q1009	VS2SD601AR/-1	R	2SD601AR	AC
Q1012	VS2SD601AR/-1	R	2SD601AR	AC
Q1013	VS2SD601AR/-1	R	2SD601AR	AC
Q1014	VS2SK583///-1	R	2SK583	AE
Q1301	VS2SD601AR/-1	R	2SD601AR	AC
Q1302	VS2SD601AR/-1	R	2SD601AR	AC
Q1303	VS2SB709AR/-1	R	2SB709AR	AC
Q1304	VS2SD601AR/-1	R	2SD601AR	AC
Q1305	VS2SD601AR/-1	R	2SD601AR	AC
Q1306	VS2SB709AR/-1	R	2SB709AR	AC
Q1311	VS2SA1015Y/1E	R	2SA1015(Y)	AC
Q1312	VS2SD601AR/-1	R	2SD601AR	AC
Q1313	VS2SD601AR/-1	R	2SD601AR	AC

DIODES

Ref. No.	Part No.	★	Description	Code
D201	RH-EX0260TAZZ	R	Zener Diode	AC
D202	RH-EX0260TAZZ	R	Zener Diode	AC
D451	RH-EX0631GEZZ	R	Zener Diode	AA
D452	RH-EX0631GEZZ	R	Zener Diode	AA
D453	RH-EX0631GEZZ	R	Zener Diode	AA
D454	RH-EX0631GEZZ	R	Zener Diode	AA
D455	RH-EX0631GEZZ	R	Zener Diode	AA
D456	RH-EX0631GEZZ	R	Zener Diode	AA
D457	RH-EX0631GEZZ	R	Zener Diode	AA
D458	RH-EX0631GEZZ	R	Zener Diode	AA
D459	RH-EX0631GEZZ	R	Zener Diode	AA
D460	RH-EX0631GEZZ	R	Zener Diode	AA
D461	RH-EX0631GEZZ	R	Zener Diode	AA
D462	RH-EX0631GEZZ	R	Zener Diode	AA
D463	RH-EX0631GEZZ	R	Zener Diode	AA
D464	RH-EX0631GEZZ	R	Zener Diode	AA
D465	RH-EX0631GEZZ	R	Zener Diode	AA
D466	RH-EX0619GEZZ	R	Zener Diode	AA
D467	RH-EX0619GEZZ	R	Zener Diode	AA
D468	RH-EX0260TAZZ	R	Zener Diode	AC
D469	RH-EX0260TAZZ	R	Zener Diode	AC
D601	RH-DX0475CEZZ	R	Diode	AB
D602	RH-DX0475CEZZ	R	Diode	AB
D603	RH-DX0475CEZZ	R	Diode	AB
D604	RH-DX0475CEZZ	R	Diode	AB
D605	RH-DX0475CEZZ	R	Diode (29A-FX5)	AB
D606	RH-DX0475CEZZ	R	Diode (29A-FX5)	AB
D607	RH-DX0475CEZZ	R	Diode	AB
D608	RH-EX0604GEZZ	R	Zener Diode	AB
D609	RH-DX0475CEZZ	R	Diode	AB
D615	RH-EX0623GEZZ	R	Zener Diode	AA
D616	RH-DX0475CEZZ	R	Diode	AB
D1001	RH-DX0475CEZZ	R	Diode	AB
D1003	RH-EX1222CEZZ	R	Zener Diode	AE
D1005	RH-EX1222CEZZ	R	Zener Diode	AE
D1007	RH-EX1222CEZZ	R	Zener Diode	AE
D1008	RH-EX1222CEZZ	R	Zener Diode	AE
D1009	RH-EX1222CEZZ	R	Zener Diode	AE
D1012	RH-EX1222CEZZ	R	Zener Diode	AE
D1013	RH-EX1222CEZZ	R	Zener Diode	AE
D1014	RH-EX1222CEZZ	R	Zener Diode	AE
D1016	RH-EX1222CEZZ	R	Zener Diode	AE
D1017	RH-EX1222CEZZ	R	Zener Diode	AE
D1018	RH-EX1222CEZZ	R	Zener Diode	AE
D1019	RH-EX1222CEZZ	R	Zener Diode	AE
D1021	RH-EX1222CEZZ	R	Zener Diode	AE
D1023	RH-EX0619GEZZ	R	Zener Diode	AA
D1024	RH-EX1222CEZZ	R	Zener Diode	AE
D1026	RH-DX0475CEZZ	R	Diode	AB
D1027	RH-EX0260TAZZ	R	Zener Diode	AC
D1028	RH-EX0260TAZZ	R	Zener Diode	AC
D1029	RH-EX0260TAZZ	R	Zener Diode	AC
D1034	RH-EX0260TAZZ	R	Zener Diode	AC
D1035	RH-EX0260TAZZ	R	Zener Diode	AC
D1036	RH-EX0260TAZZ	R	Zener Diode	AC
D1037	RH-EX0260TAZZ	R	Zener Diode	AC
D1038	RH-EX0260TAZZ	R	Zener Diode	AC
D1039	RH-EX0260TAZZ	R	Zener Diode	AC
D1040	RH-EX0260TAZZ	R	Zener Diode	AC
D1041	RH-EX0260TAZZ	R	Zener Diode	AC
D1042	RH-EX0260TAZZ	R	Zener Diode	AC
D1043	RH-EX0260TAZZ	R	Zener Diode	AC
D1044	RH-EX0260TAZZ	R	Zener Diode	AC
D1045	RH-EX0260TAZZ	R	Zener Diode	AC
D1046	RH-EX0260TAZZ	R	Zener Diode	AC
D1049	RH-DX0475CEZZ	R	Diode	AB
D1300	RH-DX0475CEZZ	R	Diode	AB
D1302	RH-DX0475CEZZ	R	Diode	AB
D1304	RH-DX0475CEZZ	R	Diode	AB
D1305	RH-DX0475CEZZ	R	Diode	AB
D1309	RH-EX0619GEZZ	R	Zener Diode	AA
D1310	RH-EX0619GEZZ	R	Zener Diode	AA
D1311	RH-EX0641GEZZ	R	Zener Diode	AA
D1312	RH-EX0616GEZZ	R	Zener Diode	AA
D1313	RH-DX0475CEZZ	R	Diode	AB
D1314	RH-DX0475CEZZ	R	Diode	AB
D1315	RH-DX0475CEZZ	R	Diode	AB
D1316	RH-DX0475CEZZ	R	Diode	AB
D1317	RH-DX0475CEZZ	R	Diode	AB

FILTERS AND COILS

Ref. No.	Part No.	★	Description	Code
CF601	RFiLA0020CEZZ	R	Ceramic Filter	AD
CF1001	RFiLA0084CEZZ	R	Ceramic Filter	AE
L200	VP-XF390K0000	R	Peaking 39µH	AB
L201	VP-DF270K0000	R	Peaking 27µH	AB
L202	VP-DF270K0000	R	Peaking 27µH	AB
L203	VP-DF270K0000	R	Peaking 27µH	AB
L204	VP-DF100K0000	R	Peaking 10µH	AB
L401	VP-DF100K0000	R	Peaking 10µH	AB
L402	VP-DF100K0000	R	Peaking 10µH	AB
L403	VP-XF181K0000	R	Peaking 180µH	AB
L1002	VP-DF8R2K0000	R	Peaking 8.2µH	AB
L1004	VP-DF1R0K0000	R	Peaking 1µH	AB
L1302	RCiLP0299CEZZ	R	Coil	AF
L1303	RCiLP0299CEZZ	R	Coil	AF
L1304	RCiLP0299CEZZ	R	Coil	AF
L1305	RCiLP0299CEZZ	R	Coil	AF
L1308	RCiLP0362CEZZ	R	Coil	
L1309	RCiLP0362CEZZ	R	Coil	
T1001	RCiLB0029PEZZ	J	Oscillation Coil	AE

CONTROL

Ref. No.	Part No.	★	Description	Code
R220	RVR-M4620GEZZ	R	1k (B) V-Level Adj.	AB

CAPACITORS

Ref. No.	Part No.	★				Code
C200	VCCCCY1HH270J	R	27p	50V	Ceramic	AA
C201	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C202	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C204	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C206	VCEA0A1CW337M	R	330	16V	Electrolytic	AC
C207	VCEA0A1CW337M	R	330	16V	Electrolytic	AC
C208	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C209	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C210	VCCCCY1HH180J	R	18p	50V	Ceramic	AA
C212	VCCCCY1HH470J	R	47p	50V	Ceramic	AA
C215	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C351	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C352	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C353	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C354	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C355	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C356	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C357	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C358	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C363	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C364	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C365	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C366	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C367	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C368	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C369	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C370	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C371	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C372	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C373	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C374	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C383	VCEA0A1HW475M	R	4.7	50V	Electrolytic	AB
C384	VCEA0A1HW475M	R	4.7	50V	Electrolytic	AB
C409	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C410	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C411	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C412	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C413	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C414	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C417	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C418	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C419	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C451	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C452	VCEA0A1CW106M	R	10	16V	Electrolytic	AB

Ref. No.	Part No.	★	Description			Code
C453	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C454	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C455	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C456	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C457	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C458	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C459	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C460	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C461	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C462	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C463	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C465	VCEA0A1CW107M	R	100	16V	Electrolytic	AC
C466	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C467	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C468	VCCCCY1HH100D	R	10p	50V	Ceramic	AA
C469	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C470	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C471	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C472	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C473	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C474	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C475	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C476	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C477	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C481	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C482	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C601	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C602	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C603	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C604	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C605	VCEA0A1CW227M	R	220 (29A-FX5)	16V	Electrolytic	AC
C606	VCEA0A1CW227M	R	220 (29A-FX5)	16V	Electrolytic	AC
C607	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C608	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C613	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C614	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C615	VCQYTA1HM123K	R	0.012	50V	Mylar	AA
C616	VCEA0A1HW224M	R	0.22	50V	Electrolytic	AB
C617	VCKYCY1HB182K	R	1800p	50V	Ceramic	AA
C618	VCKYCY1HB821K	R	820p	50V	Ceramic	AA
C619	VCEA0A1HW224M	R	0.22	50V	Electrolytic	AB
C620	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C1001	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C1002	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C1003	VCEA0A1AW107M	R	100	10V	Electrolytic	AB
C1004	VCKYCY1EF104Z	R	0.1	25V	Ceramic	AA
C1005	VCCCCY1HH220J	R	22p	50V	Ceramic	AA
C1006	VCCCCY1HH220J	R	22p	50V	Ceramic	AA
C1007	VCCCCY1HH220J	R	22p	50V	Ceramic	AA
C1008	VCCCCY1HH220J	R	22p	50V	Ceramic	AA
C1009	VCEA0A1HW474M	R	0.47	50V	Electrolytic	AB
C1010	VCCCCY1HH221J	R	220p	50V	Ceramic	AA
C1011	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C1012	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C1013	VCEA0A1CW107M	R	100	16V	Electrolytic	AC
C1014	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C1015	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C1022	VCCCCY1HH220J	R	22p	50V	Ceramic	AA
C1024	VCEA0A1CW476M	R	47 (29A-FX5)	16V	Electrolytic	AB
C1025	VCKYCY1HF103Z	R	0.01 (29A-FX5)	50V	Ceramic	AA
C1026	VCKYCY1HF103Z	R	0.01 (29A-FX5)	50V	Ceramic	AA
C1027	VCKYCY1HF103Z	R	0.01 (29A-FX5)	50V	Ceramic	AA
C1028	VCKYCY1HF103Z	R	0.01 (29A-FX5)	50V	Ceramic	AA
C1029	VCKYCY1HF103Z	R	0.01 (29A-FX5)	50V	Ceramic	AA
C1033	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C1034	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C1035	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA

Ref. No.	Part No.	★	Description			Code
C1036	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C1300	VCFYFA1HA474J	R	0.47	50V	Mylar	AC
C1301	VCFYFA1HA474J	R	0.47	50V	Mylar	AC
C1302	VCKYPA1HB561K	R	560p	50V	Ceramic	AA
C1303	VCKYPA1HB561K	R	560p	50V	Ceramic	AA
C1304	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1305	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1306	VCKYCY1HB472K	R	4700p	50V	Ceramic	AA
C1307	VCKYCY1HB472K	R	4700p	50V	Ceramic	AA
C1308	VCCCCY1HH271J	R	270p	50V	Ceramic	AA
C1309	VCCCCY1HH271J	R	270p	50V	Ceramic	AA
C1310	VCEA0H1VW228M	R	2200	35V	Electrolytic	AH
C1311	VCEA0H1VW228M	R	2200	35V	Electrolytic	AH
C1312	VCEA0H1VW228M	R	2200	35V	Electrolytic	AH
C1313	VCEA0H1VW228M	R	2200	35V	Electrolytic	AH
C1314	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1315	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1316	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1317	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1318	VCEA0A1HW104M	R	0.1	50V	Electrolytic	AB
C1319	VCEA0A1HW104M	R	0.1	50V	Electrolytic	AB
C1320	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C1321	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C1322	VCFYFA1HA334J	R	0.33	50V	Mylar	AB
C1323	VCFYFA1HA334J	R	0.33	50V	Mylar	AB
C1324	VCQYTA1HM223J	R	0.022	50V	Mylar	AA
C1325	VCQYTA1HM223J	R	0.022	50V	Mylar	AA
C1326	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1327	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1328	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1329	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1330	VCE9GA1HW225M	R	2.2	50V	Elect. (N.P)	AB
C1331	VCFYFA1HA154J	R	0.15	50V	Mylar	AC
C1332	VCEA0A1CW337M	R	330	16V	Electrolytic	AC
C1333	VCFYFA1HA154J	R	0.15	50V	Mylar	AC
C1336	VCEA0A0JW477M	R	470	6.3V	Electrolytic	AC
C1337	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1338	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1345	VCKYCY1HF683Z	R	0.068	50V	Ceramic	AB
C1346	VCKYCY1HF683Z	R	0.068	50V	Ceramic	AB
C1349	VCKYCY1HF473Z	R	0.047	50V	Ceramic	AA
C1350	VCKYCY1HF473Z	R	0.047	50V	Ceramic	AA
C1375	VCKYCY1HF473Z	R	0.047	50V	Ceramic	AA
C1376	VCKYCY1HF473Z	R	0.047	50V	Ceramic	AA
C1377	VCKYCY1HF473Z	R	0.047	50V	Ceramic	AA
C1378	VCKYCY1HF473Z	R	0.047	50V	Ceramic	AA

RESISTORS

RJ1	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ5	VRS-CY1JF000J	R	0 (29A-FX5)	1/16W	Metal Oxide	AA
RJ12	VRS-CY1JF000J	R	0 (29A-FX5)	1/16W	Metal Oxide	AA
RJ13	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ14	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ15	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ16	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ17	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ18	VRS-CY1JF000J	R	0 (29A-FX5)	1/16W	Metal Oxide	AA
RJ19	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ21	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ22	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ23	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ24	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ27	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ28	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ29	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ30	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ32	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ33	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ34	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ38	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ40	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ41	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★			Description	Code
RJ42	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ43	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ46	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ47	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ48	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
R200	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R202	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R203	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R204	VRS-CY1JF123J	R	12k	1/16W	Metal Oxide	AA
R205	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R206	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R207	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R208	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R209	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R210	VRS-CY1JF222J	R	2.2k	1/16W	Metal Oxide	AA
R211	VRS-CY1JF331J	R	330	1/16W	Metal Oxide	AA
R212	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R213	VRS-CY1JF680J	R	68	1/16W	Metal Oxide	AA
R214	VRS-CY1JF680J	R	68	1/16W	Metal Oxide	AA
R215	VRS-CY1JF391J	R	390	1/16W	Metal Oxide	AA
R216	VRS-CY1JF391J	R	390	1/16W	Metal Oxide	AA
R217	VRS-CY1JF221J	R	220	1/16W	Metal Oxide	AA
R218	VRD-RA2BE473J	R	47k	1/8W	Carbon	AA
R219	VRS-CY1JF473J	R	47k	1/16W	Metal Oxide	AA
R351	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R352	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R353	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R354	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R355	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R356	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R357	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R358	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R361	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R362	VRD-RA2EE102J	R	1.0k	1/4W	Carbon	AA
R364	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R365	VRD-RA2EE102J	R	1.0k	1/4W	Carbon	AA
R367	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R368	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R369	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R370	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R371	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R372	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R373	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R374	VRS-CY1JF564J	R	560k	1/16W	Metal Oxide	AA
R375	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R376	VRS-CY1JF564J	R	560k	1/16W	Metal Oxide	AA
R377	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R378	VRS-CY1JF564J	R	560k	1/16W	Metal Oxide	AA
R379	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R380	VRS-CY1JF564J	R	560k	1/16W	Metal Oxide	AA
R381	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R382	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R383	VRS-CY1JF104J	R	100k	1/16W	Metal Oxide	AA
R384	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R385	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R386	VRS-CY1JF104J	R	100k	1/16W	Metal Oxide	AA
R387	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R388	VRS-CY1JF473J	R	47k	1/16W	Metal Oxide	AA
R389	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R390	VRS-CY1JF473J	R	47k	1/16W	Metal Oxide	AA
R391	VRS-CY1JF564J	R	560k	1/16W	Metal Oxide	AA
R392	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R393	VRS-CY1JF564J	R	560k	1/16W	Metal Oxide	AA
R394	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R408	VRS-CY1JF223J	R	22k	1/16W	Metal Oxide	AA
R413	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R414	VRS-CY1JF123J	R	12k	1/16W	Metal Oxide	AA
R416	VRS-CY1JF123J	R	12k	1/16W	Metal Oxide	AA
R421	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R422	VRD-RA2BE473J	R	47k	1/8W	Carbon	AA
R451	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R452	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R453	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R454	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R455	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R456	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R457	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R458	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R459	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R461	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R462	VRD-RM2HD221J	R	220	1/2W	Carbon	AA
R464	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R465	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R467	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R468	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R469	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R470	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R471	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R472	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R473	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R474	VRD-RA2EE750J	R	75	1/4W	Carbon	AA
R475	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R476	VRD-RA2EE390J	R	39	1/4W	Carbon	AA
R477	VRD-RA2EE750J	R	75	1/4W	Carbon	AA
R478	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R479	VRD-RA2EE750J	R	75	1/4W	Carbon	AA
R480	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R481	VRD-RA2EE750J	R	75	1/4W	Carbon	AA
R482	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R483	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R484	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R485	VRD-RA2EE750J	R	75	1/4W	Carbon	AA
R486	VRD-RA2BE330J	R	33	1/8W	Carbon	AA
R488	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R489	VRD-RA2EE750J	R	75	1/4W	Carbon	AA
⚠ R494	RR-XZ0026CEZZ	R	10	1/4W	Fuse Resistor	AB
R495	VRS-CY1JF152J	R	1.5k	1/16W	Metal Oxide	AA
R496	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R497	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R498	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R501	VRS-CY1JF333J	R	33k	1/16W	Metal Oxide	AA
R502	VRS-CY1JF333J	R	33k	1/16W	Metal Oxide	AA
R503	VRS-CY1JF562J	R	5.6k	1/16W	Metal Oxide	AA
R601	VRN-VV3DB4R7J	R	4.7	2W	Metal Film	AB
R602	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R603	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R604	VRN-VV3AB6R8J	R	6.8	1W	Metal Film	AA
R606	VRS-VV3AB100J	R	10	1W (29A-FX5)	Metal Oxide	AA
R608	VRN-VV3DB8R2J	R	8.2	2W	Metal Film	AB
R609	VRD-RM2HD470J	R	47	1/2W	Carbon	AA
R610	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R618	VRS-CY1JF684J	R	680k	1/16W	Metal Oxide	AA
R619	VRS-CY1JF682J	R	6.8k	1/16W	Metal Oxide	AA
R620	VRS-CY1JF562J	R	5.6k	1/16W	Metal Oxide	AA
R621	VRS-CY1JF271J	R	270	1/16W	Metal Oxide	AA
R622	VRS-CY1JF471J	R	470	1/16W	Metal Oxide	AA
R623	VRS-CY1JF184J	R	180k	1/16W	Metal Oxide	AA
R624	VRD-RA2EE471J	R	470	1/4W	Carbon	AA
R625	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R626	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R627	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R628	VRS-CY1JF223J	R	22k	1/16W	Metal Oxide	AA
R629	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R1001	VRS-CY1JF333J	R	33k	1/16W	Metal Oxide	AA
R1002	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R1003	VRS-CY1JF333J	R	33k	1/16W	Metal Oxide	AA
R1004	VRS-CY1JF562J	R	5.6k	1/16W	Metal Oxide	AA
R1005	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R1006	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R1007	VRS-CY1JF562J	R	5.6k	1/16W	Metal Oxide	AA
R1008	VRS-CY1JF562J	R	5.6k	1/16W	Metal Oxide	AA
R1011	VRS-CY1JF562J	R	5.6k	1/16W	Metal Oxide	AA
R1012	VRS-CY1JF562J	R	5.6k	1/16W (29A-FX5)	Metal Oxide	AA
R1013	VRD-RA2BE102J	R	1.0k	1/8W	Carbon	AA
R1014	VRS-CY1JF563J	R	56k	1/16W	Metal Oxide	AA
R1016	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R1017	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R1019	VRS-CY1JF563J	R	56k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1020	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1021	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1024	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1025	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1026	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1027	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1028	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1029	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1030	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1031	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
R1032	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1033	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1034	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1035	VRS-CY1JF223J	R	22k 1/16W Metal Oxide (29A-FX5)	AA
R1036	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
R1038	VRS-CY1JF102J	R	1.0k 1/16W Metal Oxide	AA
R1041	VRS-CY1JF563J	R	56k 1/16W Metal Oxide (29A-FX8)	AA
R1042	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1043	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1044	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1045	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1046	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
R1049	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1051	VRD-RA2BE562J	R	5.6k 1/8W Carbon	AA
R1052	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1053	VRS-CY1JF392J	R	3.9k 1/16W Metal Oxide	AA
R1054	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1055	VRS-CY1JF102J	R	1.0k 1/16W Metal Oxide	AA
R1056	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1057	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1058	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1061	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1062	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1063	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1064	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1065	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1067	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1069	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1070	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1071	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1072	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1073	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1074	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R1075	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1076	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1077	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1078	VRD-RA2BE471J	R	470 1/8W Carbon	AA
R1079	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
R1080	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R1081	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R1086	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1087	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1088	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1089	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1091	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1092	VRS-CY1JF222J	R	2.2k 1/16W Metal Oxide	AA
R1093	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1094	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1095	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1096	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1100	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1101	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1102	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R1103	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1106	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1107	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1108	VRS-CY1JF393J	R	39k 1/16W Metal Oxide	AA
R1109	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1110	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1111	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1112	VRD-RA2BE272J	R	2.7k 1/8W Carbon	AA
R1113	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1114	VRS-CY1JF102J	R	1.0k 1/16W Metal Oxide	AA
R1118	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1119	VRD-RA2BE101J	R	100 1/8W Carbon (29A-FX5)	AB
R1120	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1125	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R1126	VRS-CY1JF473J	R	47k 1/16W Metal Oxide	AA
R1127	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1129	VRS-CY1JF563J	R	56k 1/16W Metal Oxide	AA
R1131	VRS-CY1JF101J	R	100 1/16W Metal Oxide (29A-FX5)	AA
R1132	VRS-CY1JF101J	R	100 1/16W Metal Oxide (29A-FX5)	AA
R1133	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1134	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1137	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R1138	VRD-RA2BE471J	R	470 1/8W Carbon	AA
R1139	VRS-CY1JF562J	R	5.6k 1/16W Metal Oxide	AA
R1306	VRS-CY1JF123J	R	12k 1/16W Metal Oxide	AA
R1307	VRS-CY1JF123J	R	12k 1/16W Metal Oxide	AA
R1308	VRS-CY1JF272J	R	2.7k 1/16W Metal Oxide	AA
R1309	VRS-CY1JF272J	R	2.7k 1/16W Metal Oxide	AA
R1310	VRS-CY1JF391J	R	390 1/16W Metal Oxide	AA
R1311	VRS-CY1JF391J	R	390 1/16W Metal Oxide	AA
R1312	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1313	VRS-CY1JF102J	R	1.0k 1/16W Metal Oxide	AA
R1314	VRD-RA2BE332J	R	3.3k 1/8W Carbon	AA
R1315	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R1316	VRD-RM2HD151J	R	150 1/2W Carbon	AA
R1317	VRD-RM2HD151J	R	150 1/2W Carbon	AA
R1318	VRS-CY1JF223J	R	22k 1/16W Metal Oxide	AA
R1319	VRD-RA2BE104J	R	100k 1/8W Carbon	AA
R1320	VRS-CY1JF104J	R	100k 1/16W Metal Oxide	AA
R1321	VRS-CY1JF101J	R	100 1/16W Metal Oxide	AA
R1325	VRS-CY1JF183J	R	18k 1/16W Metal Oxide	AA
R1327	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1328	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1329	VRD-RM2HD102J	R	1.0k 1/2W Carbon	AA
R1330	VRD-RM2HD102J	R	1.0k 1/2W Carbon	AA
R1331	VRS-VV3AB221J	R	220 1W Metal Oxide	AA
R1332	VRS-VV3AB221J	R	220 1W Metal Oxide	AA
R1333	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
R1345	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1346	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1347	VRS-KT3LB221J	R	220 3W Metal Oxide	AE
R1348	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R1349	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R1350	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R1375	VRS-CY1JF273J	R	27k 1/16W Metal Oxide	AA
R1376	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA
R1377	VRS-CY1JF103J	R	10k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

J451	QTANJ0967CEZZ	R	Terminal, AV-In	AP
J452	QTANJ0527CEZZ	R	Terminal, DVD-In	AL
P301	QPLGN0361CEZZ	R	Plug, 3-pin (SR)	AB
P400	QPLGN0861CEZZ	R	Plug, 8-pin (Y)	AC
P1000	QPLGN0661CEZZ	R	Plug, 6-pin (BC)	AD
P1001	QPLGN0761CEZZ	R	Plug, 7-pin (LE)	AD
P1003	QPLGN0361CEZZ	R	Plug, 3-pin (XA)	AB
P1005	QPLGN1061CEZZ	R	Plug, 10-pin (HP)	AC
P1301	QPLGN0861CEZZ	R	Plug, 8-pin (SS)	AC
P1302	QPLGN0361CEZZ	R	Plug, 3-pin (SI)	AB
P1304	QPLGN0361CEZZ	R	Plug, 3-pin (SR)	AB
SC301	QSOCN0284FJZZ	R	Socket, 20-pin (NI)	AK
SC401	QSOCN0785CEZZ	R	Socket, 7-pin (YA)	AC
SC402	QSOCN0785CEZZ	R	Socket, 7-pin (YB)	AC
SC404	QSOCZ3061CEZZ	R	Socket, 30-pin (VA)	AH
SC405	QSOCN0285FJZZ	R	Socket, 30-pin (VB)	AG
SC406	QSOCN0885CEZZ	R	Socket, 8-pin (TX) (29A-FX5)	AC
SC407	QSOCN0785CEZZ	R	Socket, 9-pin (TE) (29A-FX5)	AC
SC451	QSOCD0427CEZZ	R	Socket, S-Video	AL
SC602	QSOCZ1040CEZZ	R	Socket, 10-pin (XB)	AD
SC603	QSOCZ1040CEZZ	R	Socket, 10-pin (XD)	AD

Ref. No.	Part No.	★	Description	Code
SC1001	QSOCZ1040CEZZ	R	Socket	AD
RDA601	PRDAR0160PEFW	J	Heat Sink, for IC601	AF
RDA1300	PRDAR0265PEFW	J	Heat Sink, for IC1300 / IC1301	AD
SLD1001	PSLDM0211PEFW	J	Shield	AG
	LX-BZ3100CEFD	R	Screw	AA

PWB-B DUNTK9860WEV5/V6 POWER UNIT

INTEGRATED CIRCUITS

IC1500	VHiTA1241AN-1	R	TA1241AN	AM
IC1501	VHiTA8427K/-1	R	TA8427K	AL
IC1680	VHiiR9358//-1	R	IR9358	AD
⚠ IC1701	RH-FX0008GEZZ	R	PC123FY8	AE
IC1702	VHiSTRM6821-1	R	STRM6821A	AZ
IC1752	VHiSE120N//-1	R	SE120N	AG
IC1753	VHiKA7809Pi-1	J	KA7809PI	AE
IC1754	VHiKA7812Pi-1	J	KA7812PI	AE
IC1757	RH-iX0249CEZZ	R	I.C.	AE

TRANSISTORS

Q1500	VS2SC1815GW-1	R	2SC1815GW	AB
⚠ Q1604	VS2SC1815GW-1	R	2SC1815GW	AB
Q1622	VS2SC3207//-1	R	2SC3207	AC
⚠ Q1630	VS2SD2581//1E	R	2SD2581	AL
Q1670	VS2SA1246//1E	R	2SA1246	AE
Q1671	VS2SD1830//1E	R	2SD1830	AF
Q1680	VS2SC5022//1E	R	2SC5022	AG
Q1681	VS2SC3198-Y-1	R	2SC3198(Y)	AA
Q1700	VS2SC1815GW-1	R	2SC1815GW	AB
Q1750	VS2SC1815GW-1	R	2SC1815GW	AB

DIODES

D1500	RH-EX0619GEZZ	R	Zener Diode	AA
D1501	RH-EX0619GEZZ	R	Zener Diode	AA
D1503	RH-EX0619GEZZ	R	Zener Diode	AA
D1505	RH-EX0619GEZZ	R	Zener Diode	AA
D1506	RH-DX0279CEZZ	R	Diode	AB
D1576	RH-DX0127CEZZ	R	Diode	AC
D1607	RH-DX0475CEZZ	R	Diode	AB
D1610	RH-DX0202CEZZ	R	Diode	AD
⚠ D1620	RH-DX0475CEZZ	R	Diode	AB
⚠ D1621	RH-EX0655GEZZ	R	Zener Diode	AB
D1631	RH-DX0449CEZZ	R	Diode	AK
D1651	RH-DX0302CEZZ	R	Diode	AC
D1657	RH-DX0127CEZZ	R	Diode	AC
D1659	RH-DX0487CEZZ	R	Diode	AC
D1664	RH-EX0630GEZZ	R	Zener Diode	AA
D1680	RH-DX0484CEZZ	R	Diode	AE
D1681	RH-DX0475CEZZ	R	Diode	AB
D1682	RH-DX0475CEZZ	R	Diode	AB
D1683	RH-DX0475CEZZ	R	Diode	AB
D1684	RH-DX0475CEZZ	R	Diode	AB
D1700	RH-DX0336CEZZ	R	Diode	AH
D1701	RH-DX0321CEZZ	R	Diode	AC
D1702	RH-DX0130CEZZ	R	Diode	AE
D1703	RH-DX0130CEZZ	R	Diode	AE
D1704	VHSTF861S//-1	R	Si. Control Rectifier	AK
D1705	RH-DX0130CEZZ	R	Diode	AE
D1750	RH-DX0243CEZZ	R	Diode	AF
D1751	RH-DX0243CEZZ	R	Diode	AF
D1752	RH-DX0445CEZZ	R	Diode	AL
D1753	RH-DX0473CEZZ	R	Diode	AK
D1755	RH-DX0475CEZZ	R	Diode	AB
D1756	RH-DX0452CEZZ	R	Diode	AH
D1758	RH-EX0152CEZZ	R	Zener Diode	AE
D1759	RH-EX0611GEZZ	R	Zener Diode	AA
D1760	RH-DX0475CEZZ	R	Diode	AB
D1761	RH-DX0475CEZZ	R	Diode	AB
D1764	RH-DX0475CEZZ	R	Diode	AB
D1765	RH-DX0475CEZZ	R	Diode	AB

COILS

L1500	VP-CF331K0000	R	Peaking 330µH	AB
L1574	RCiLZ0723CEZZ	R	Coil	AK
L1575	RCiLP0235BMZZ	R	Coil	AX
L1640	RCiLZ0982CEZZ	R	Coil	AK
L1641	RCiLZ1034CEZZ	R	Coil	AM
L1670	RCiLZ1005CEZZ	R	Coil	AH
L1680	RCiLZ0976CEZZ	R	Coil	AK
L1681	VP-XF8R2K0000	R	Peaking 8.2µH	AB
L1750	RCiLP0292CEZZ	R	Coil	AE
L1751	RCiLP0292CEZZ	R	Coil	AE
L1752	RCiLP0268CEZZ	R	Coil	AE
L1753	RCiLP0268CEZZ	R	Coil	AE
L1754	RCiLP0268CEZZ	R	Coil	AE

TRANSFORMERS

⚠ T1602	RTRNF2032CEZZ	R	H-Volt Transformer	BG
⚠ T1620	RTRNZ0731CEZZ	R	Transformer	AG
T1680	RTRNZ0726CEZZ	R	Transformer	AM
⚠ T1700	RTRNZ0163PEZZ	J	Transformer	AX

CONTROL

R1633	RVR-M4634GEZZ	R	220k Sub-Cont. Adj.	AB

CAPACITORS

C1500	VCCSPA1HL221J	R	220p	50V	Ceramic	AA
C1501	VCQYTA1HM223J	R	0.022	50V	Mylar	AA
C1502	VCEACA1HC225M	R	2.2	50V	Electrolytic	AC
C1503	VCFYFA1HA474J	R	0.47	50V	Mylar	AC
C1506	VCEA0A1CW108M	R	1000	16V	Electrolytic	AD
C1507	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1508	VCKYPA1HB102K	R	1000p	50V	Ceramic	AA
C1510	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C1511	VCEA0A1HW107M	R	100	50V	Electrolytic	AB
C1512	VCQYTA1HM823J	R	0.082	50V	Mylar	AA
C1513	VCKYPA2HB391K	R	390p	500V	Ceramic	AA
C1514	VCQYTA1HM682J	R	6800p	50V	Mylar	AB
C1515	VCFYAA2AA224J	R	0.22	100V	Mylar	AD
C1516	VCQYTA1HM103J	R	0.01	50V	Mylar	AA
C1518	VCEA0A1VW108M	R	1000	35V	Electrolytic	AD
C1519	VCEACA1HC105M	R	1.0	50V	Electrolytic	AC
C1520	VCEA0A1VW108M	R	1000	35V	Electrolytic	AD
C1521	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1525	VCKYPA1HB391K	R	390p	50V	Ceramic	AA
C1526	VCKYPA1HB391K	R	390p	50V	Ceramic	AA
C1572	VCEA0H1VW228M	R	2200	35V	Electrolytic	AH
C1574	VCFPVC2DB394J	R	0.39	200V	Polypro Film	AE
C1575	RC-QZ0037CEZZ	R	0.01	100V	Mylar	AB
C1576	VCKYPA2HB102K	R	1000p	500V	Ceramic	AA
C1610	VCFYSB2EB224K	R	0.22	250V	Mylar	AD
⚠ C1619	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1623	VCFPVC2DB474J	R	0.47	200V	Polypro Film	AE
C1625	VCKYPA2HB561K	R	560p	500V	Ceramic	AA
C1627	VCKYPA1HB102K	R	1000p	50V	Ceramic	AA
C1628	VCFYSB2EB223K	R	0.022	250V	Mylar	AC
⚠ C1632	VCFPVC3CA103H	R	0.01	1.6kV	Polypro Film	AE
⚠ C1633	VCFPVC3CA912H	R	9100p	1.6kV	Polypro Film	AE
⚠ C1635	VCQPPC2JB223J	R	0.022	630V	Mylar	AC
⚠ C1636	VCQPPC2JB223J	R	0.022	630V	Mylar	AC
C1638	VCKYPA1HB472K	R	4700p	50V	Ceramic	AA
C1639	RC-KZ0033CEZZ	R	150p	2kV	Ceramic	AB
C1640	VCFYFA1HA474J	R	0.47	50V	Mylar	AC
C1644	RC-FZ0364CEZZ	R	0.62	250V	Mylar	AF
C1651	VCKYPA2HB102K	R	1000p	500V	Ceramic	AA
C1652	VCEA0A2EW106M	R	10	250V	Electrolytic	AD
C1655	VCKYPA2HB331K	R	330p	500V	Ceramic	AA
C1657	VCKYPA2HB102K	R	1000p	500V	Ceramic	AA
C1658	VCEA0A1EW108M	R	1000	25V	Electrolytic	AD
C1659	VCEA0A1VW107M	R	100	35V	Electrolytic	AC
C1670	RC-FZ0374CEZZ	R	4.7	100V	Mylar	AF
C1680	VCFPVC3CA822H	R	8200p	1.6kV	Polypro Film	AE
C1681	RC-KZ0024CEZZ	R	1000p	2kV	Ceramic	AC
C1682	RC-KZ0340CEZZ	R	820p	2kV	Ceramic	AD
C1683	VCE9GA1HW335M	R	3.3	50V	Elect. (N.P)	AB
C1684	VCEA0A1VW106M	R	10	35V	Electrolytic	AB

Ref. No.	Part No.	★				Description	Code
C1695	VCFYFA1HA224J	R	0.22	50V		Mylar	AB
C1696	VCQYTA1HM103J	R	0.01	50V		Mylar	AA
C1702	RC-EZ0689CEZZ	R	680	400V		Electrlytic	BA
C1703	VCQPSC2JA333K	R	0.033	630V			AB
C1704	RC-KZ0334CEZZ	R	270p	2kV		Ceramic	AC
C1705	RC-KZ0024CEZZ	R	1000p	2kV		Cermic	AC
C1706	VCEA0A1HW107M	R	100	50V		Electrolytic	AB
C1707	VCKYPA1HB101K	R	100p	50V		Ceramic	AA
C1708	VCKYPA1HF103Z	R	0.01	50V		Ceramic	AA
C1709	VCKYPA1HB471K	R	470p	50V		Ceramic	AA
⚠ C1710	RC-KZ016SCEZZ	R	470p	4kV		Ceramic	AD
C1711	VCQYTA1HM103J	R	0.01	50V		Mylar	AA
C1712	VCE9GA1HW105M	R	1.0	50V		Elect. (N.P)	AB
C1714	VCQYTA1HM223J	R	0.022	50V		Mylar	AA
C1750	VCKYPA2HB471K	R	470p	500V		Ceramic	AA
C1751	VCKYPA2HB471K	R	470p	500V		Ceramic	AA
C1752	VCKYPA2HB471K	R	470p	500V		Ceramic	AA
C1753	VCKYPA2HB471K	R	470p	500V		Ceramic	AA
C1754	VCKYPA2HB471K	R	470p	500V		Ceramic	AA
C1755	RC-EZ0004PEZZ	J	2200	35V		Electrolytic	AH
C1756	RC-EZ0004PEZZ	J	2200	35V		Electrolytic	AH
C1757	RC-EZ0002PEZZ	J	1000	25V		Electrolytic	AE
C1758	RC-EZ0002PEZZ	J	1000	25V		Electrolytic	AE
C1759	RC-EZ0006PEZZ	J	220	160V		Electrolytic	AK
C1760	RC-EZ0006PEZZ	J	220	160V		Electrolytic	AK
C1763	RC-KZ0029CEZZ	R	0.01	250V		Ceramic	AC
C1764	RC-EZ0004PEZZ	J	2200	35V		Electrolytic	AH
C1765	RC-EZ0004PEZZ	J	2200	35V		Electrolytic	AH
C1766	RC-EZ0002PEZZ	J	1000	25V		Electrolytic	AE
C1767	RC-EZ0002PEZZ	J	1000	25V		Electrolytic	AE
C1768	RC-EZ0006PEZZ	J	220	160V		Electrolytic	AK
C1769	RC-KZ0029CEZZ	R	0.01	250V		Ceramic	AC
C1770	RC-KZ0335CEZZ	R	330p	2kV		Ceramic	AD
C1771	VCEA0A1HW106M	R	10	50V		Electrolytic	AB
C1772	VCKYPA2HB101K	R	100p	500V		Ceramic	AA
C1773	VCKYPA1HB101K	R	100p	50V		Ceramic	AA
C1774	VCEA0A1EW227M	R	220	25V		Electrolytic	AB
C1775	VCEA0A1CW227M	R	220	16V		Electrolytic	AC
C1776	VCEA0A1EW337M	R	330	25V		Electrolytic	AC
C1777	VCEA0A1CW337M	R	330	16V		Electrolytic	AC
C1782	RC-EZ0002PEZZ	J	1000	25V		Electrolytic	AE
C1783	RC-EZ0002PEZZ	J	1000	25V		Electrolytic	AE

RESISTORS

R1500	VRD-RA2BE101J	R	100	1/8W		Carbon	AB
R1501	VRD-RA2BE101J	R	100	1/8W		Carbon	AB
R1504	VRD-RA2BE221J	R	220	1/8W		Carbon	AA
R1505	VRD-RA2BE183J	R	18k	1/8W		Carbon	AA
R1506	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1508	VRD-RA2BE102J	R	1.0k	1/8W		Carbon	AA
R1510	VRD-RA2BE101J	R	100	1/8W		Carbon	AB
R1511	VRD-RA2BE104J	R	100k	1/8W		Carbon	AA
R1512	VRD-RA2BE563J	R	56k	1/8W		Carbon	AA
R1513	VRD-RA2BE223J	R	22k	1/8W		Carbon	AA
R1514	VRD-RA2BE124J	R	120k	1/8W		Carbon	AA
R1515	VRD-RA2BE154J	R	150k	1/8W		Carbon	AA
R1516	VRD-RA2BE154J	R	150k	1/8W		Carbon	AA
R1517	VRD-RA2EE125J	R	1.2M	1/4W		Carbon	AA
R1520	VRD-RA2BE183J	R	18k	1/8W		Carbon	AA
R1521	VRD-RA2BE101J	R	100	1/8W		Carbon	AB
⚠ R1522	VRG-RL2HB220J	R	22	1/2W		Fuse Resistor	AB
R1523	VRD-RA2BE124J	R	120k	1/8W		Carbon	AA
R1524	VRD-RA2BE683J	R	68k	1/8W		Carbon	AA
R1525	VRD-RA2BE274J	R	270k	1/8W		Carbon	AA
R1526	VRD-RA2BE223J	R	22k	1/8W		Carbon	AA
R1527	VRS-VV3AB391J	R	390	1W		Metal Oxide	AA
R1528	VRD-RM2HD391J	R	390	1/2W		Carbon	AA
R1529	VRD-RM2HD391J	R	390	1/2W		Carbon	AA
R1530	VRD-RM2HD123J	R	12k	1/2W		Carbon	AA
R1531	VRD-RM2HD2R7J	R	2.7	1/2W		Carbon	AA
R1532	VRD-RM2HD2R7J	R	2.7	1/2W		Carbon	AA
R1533	VRD-RM2HD2R7J	R	2.7	1/2W		Carbon	AA
R1556	VRD-RA2BE394J	R	390k	1/8W		Carbon	AA
R1557	VRD-RA2BE273J	R	27k	1/8W		Carbon	AA
R1558	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1559	VRD-RA2BE102J	R	1.0k	1/8W		Carbon	AA
R1574	VRS-VV3DB151J	R	150	2W		Metal Oxide	AA
R1576	VRN-VV3AB1R0J	R	1.0	1W		Metal Film	AA
R1610	VRS-VV3DB103J	R	10k	2W		Metal Oxide	AA
⚠ R1617	VRD-RA2BE153J	R	15k	1/8W		Carbon	AA
⚠ R1618	VRD-RA2BE153J	R	15k	1/8W		Carbon	AA
⚠ R1619	VRD-RA2BE472J	R	4.7k	1/8W		Carbon	AA
⚠ R1620	VRD-RA2BE101J	R	100	1/8W		Carbon	AB
R1621	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1622	VRS-SU2HB102J	R	1.0k	1/2W		Metal Oxide	AA
R1623	VRD-RM2HD393J	R	39k	1/2W		Carbon	AA
R1624	VRW-KQ3HC122J	R	1.2k	5W		Cement	AE
R1625	VRS-VV3AB562J	R	5.6k	1W		Metal Oxide	AA
R1626	VRD-RA2BE561J	R	560	1/8W		Carbon	AA
R1627	VRD-RA2BE681J	R	680	1/8W		Carbon	AA
R1629	VRW-KQ41C3R3K	R	3.3	15W		Cement	AG
R1630	VRD-RA2EE684J	R	680k	1/4W		Carbon	AA
R1631	VRD-RA2EE124J	R	120k	1/4W		Carbon	AA
R1632	VRD-RM2HD103J	R	10k	1/2W		Carbon	AA
R1634	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1637	VRD-RA2EE154J	R	150k	1/4W		Carbon	AA
R1638	VRD-RM2HD150J	R	15	1/2W		Carbon	AA
R1639	VRD-RM2HD393J	R	39k	1/2W		Carbon	AA
R1647	VRS-KT3LB122J	R	1.2k	3W		Metal Oxide	AC
⚠ R1651	RR-XZ0029CEZZ	R	3.3	1/2W		Fuse Resistor	AB
R1654	VRD-RM2HD392J	R	3.9k	1/2W		Carbon	AA
R1655	VRD-RM2HD102J	R	1.0k	1/2W		Carbon	AA
R1657	VRN-VV3ABR22J	R	0.22	1W		Metal Film	AA
R1659	VRN-VV3DBR82J	R	0.82	2W		Metal Film	AB
R1660	VRD-RM2HD101J	R	100	1/2W		Carbon	AA
R1661	VRD-RM2HD101J	R	100	1/2W		Carbon	AA
R1662	VRD-RM2HD103J	R	10k	1/2W		Carbon	AA
R1670	VRD-RA2BE102J	R	1.0k	1/8W		Carbon	AA
R1671	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1672	VRD-RA2BE472J	R	4.7k	1/8W		Carbon	AA
R1673	VRD-RA2BE822J	R	8.2k	1/8W		Carbon	AA
R1674	VRD-RA2BE182J	R	1.8k	1/8W		Carbon	AA
R1675	VRN-VV3DBR33J	R	0.33	2W		Metal Film	AA
R1680	VRS-SV3LB154J	R	150k	3W		Metal Oxide	AC
R1681	VRS-VV3LB104J	R	100k	3W		Metal Oxide	AB
R1682	VRC-MA2HG333K	R	33k	1/2W		Solid	AA
R1683	VRD-RA2BE332J	R	3.3k	1/8W		Carbon	AA
R1684	VRD-RA2BE681J	R	680	1/8W		Carbon	AA
R1685	VRS-VV3AB181J	R	180	1W		Metal Oxide	AA
R1686	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1687	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1688	VRD-RA2BE473J	R	47k	1/8W		Carbon	AA
R1689	VRD-RA2BE823J	R	82k	1/8W		Carbon	AA
R1690	VRD-RA2BE822J	R	8.2k	1/8W		Carbon	AA
R1691	VRD-RA2BE823J	R	82k	1/8W		Carbon	AA
R1695	VRD-RA2BE224J	R	220k	1/8W		Carbon	AA
R1696	VRD-RA2BE474J	R	470k	1/8W		Carbon	AA
R1702	VRW-KQ41CR82K	R	0.82	15W		Cement	AF
R1703	VRW-KQ4AC2R2K	R	2.2	10W		Cement	AF
R1704	VRS-KT3LB682J	R	6.8k	3W		Metal Oxide	AC
R1705	VRS-KT3LB822J	R	8.2k	3W		Metal Oxide	AC
R1706	VRS-KT3LB823J	R	82k	3W		Metal Oxide	AC
R1707	VRS-VV3DB100J	R	10	2W		Metal Oxide	AA
R1708	VRD-RM2HD332J	R	3.3k	1/2W		Carbon	AA
R1709	VRD-RA2BE122J	R	1.2k	1/8W		Carbon	AA
R1710	RR-WZ0140CEZZ	R	0.22	3W		Cement	AC
R1711	RR-WZ0170CEZZ	R	0.18	3W		Cement	AE
R1712	VRD-RA2BE122J	R	1.2k	1/8W		Carbon	AA
R1713	VRD-RA2BE472J	R	4.7k	1/8W		Carbon	AA
R1714	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
⚠ R1715	VRC-UA2HG825K	R	8.2M	1/2W		Solid	AA
⚠ R1716	VRC-UA2HG825K	R	8.2M	1/2W		Solid	AA
R1717	VRD-RA2BE102J	R	1.0k	1/8W		Carbon	AA
R1718	VRS-VV3AB560J	R	56	1W		Metal Oxide	AA
R1750	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1751	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1752	VRD-RA2BE273J	R	27k	1/8W		Carbon	AA
R1753	VRD-RA2BE102J	R	1.0k	1/8W		Carbon	AA
R1754	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA
R1755	VRD-RA2BE103J	R	10k	1/8W		Carbon	AA

Ref. No.	Part No.	★	Description	Code
R1756	VRD-RA2BE101J	R	100 1/8W Carbon	AB
R1757	VRD-RA2BE102J	R	1.0k 1/8W Carbon	AA
R1758	VRN-VV3DB6R8J	R	6.8 2W Metal Film	AB
R1759	VRS-VV3DB270J	R	27 2W Metal Oxide	AA
R1762	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1764	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1765	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R1766	VRD-RA2BE153J	R	15k 1/8W Carbon	AA
R1767	VRD-RA2BE682J	R	6.8k 1/8W Carbon	AA
R1768	VRS-VV3DB123J	R	12k 2W Metal Oxide	AA
R1769	VRD-RM2HD182J	R	1.8k 1/2W Carbon	AA
R1770	VRD-RM2HD182J	R	1.8k 1/2W Carbon	AA
R1771	VRD-RM2HD182J	R	1.8k 1/2W Carbon	AA
R1772	VRD-RM2HD182J	R	1.8k 1/2W Carbon	AA

MISCELLANEOUS PARTS

FB1500	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1574	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1630	RBLN-0047CEZZ	R	Ferrite Bead	AB
FB1631	RBLN-0047CEZZ	R	Ferrite Bead	AB
FB1700	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1701	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1750	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1751	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1752	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1753	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1754	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1755	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1756	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1757	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1758	RBLN-0037CEZZ	R	Ferrite Bead	AB
FB1759	RBLN-0037CEZZ	R	Ferrite Bead	AB
P1500	QPLGN0160FJZZ	R	Plug, 5-pin (K)	AD
P1501	QPLGZ1040CEZZ	R	Plug, 10-pin (XD)	AE
P1650	QPLGN0761CEZZ	R	Plug, 7-pin (H)	AD
P1702	QPLGN0304CEZZ	R	Plug, 3-pin (AC)	AB
P1750	QPLGZ1040CEZZ	R	Plug, 10-pin (XC)	AE
P1751	QPLGZ1040CEZZ	R	Plug, 10-pin (XB)	AE
SC1603	QTiPM0083CEZZ	R	Tip	AB
RDA1501	PRDAR0213PEFW	J	Heat Sink, for IC1501	AM
RDA1630	PRDAR0160PEFW	J	Heat Sink, for Q1630	AF
RDA1631	PRDAR0198PEFW	J	Heat Sink, for D1631	AG
RDA1671	PRDAR0277PEFW	J	Heat Sink, for Q1671	AF
RDA1680	PRDAR0135PEFW	J	Heat Sink, for Q1680	AE
RDA1700	PRDAR0139PEFW	J	Heat Sink, for D1700	AC
RDA1702	PRDAR0220PEFW	J	Heat Sink, for IC1702	AR
RDA1756	PRDAR0160PEFW	J	Heat Sink, for D1756	AF
SG1680	QSPGH0025CEZZ	R	Spark Gap	AC
SG1681	QSPGH0025CEZZ	R	Spark Gap	AC
	LHLDW1064PEKZ	J	Holder	AC
	LX-BZ0086TAFD	R	Screw	AA
	LX-BZ3049GEFD	R	Screw	AA
	LX-BZ3100CEFD	R	Screw	AA
	LX-TZ3004CEFD	R	Screw	AA

PWB-C DUNTK9848WEV1 CRT UNIT

INTEGRATED CIRCUITS

IC3801	VHiTDA6101Q-1	R	TDA6101Q	AH
IC3802	VHiTDA6101Q-1	R	TDA6101Q	AH
IC3803	VHiTDA6101Q-1	R	TDA6101Q	AH

TRANSISTORS

Q3801	VS2SA1246//1E	R	2SA1246	AE
Q3802	VS2SC3198-Y-1	R	2SC3198(Y)	AA
Q3851	VS2SC3198-Y-1	R	2SC3198(Y)	AA
Q3852	VS2SA1266-Y-1	R	2SA1266(Y)	AA
Q3853	VS2SA1837//-1	R	2SA1837	AF
Q3854	VS2SC4793//-1	R	2SC4793	AF

DIODES

D3801	RH-EX0647GEZZ	R	Zener Diode	AA
D3802	RH-EX0647GEZZ	R	Zener Diode	AA
D3803	RH-EX0647GEZZ	R	Zener Diode	AA
D3804	RH-DX0475CEZZ	R	Diode	AB
D3805	RH-EX0718GEZZ	R	Zener Diode	AB
D3851	RH-DX0475CEZZ	R	Diode	AB
D3852	RH-DX0475CEZZ	R	Diode	AB
D3853	RH-DX0475CEZZ	R	Diode	AB
D3854	RH-DX0443CEZZ	R	Diode	AC
D3855	RH-DX0443CEZZ	R	Diode	AC

CAPACITORS

C3802	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3803	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3804	RC-FZ0373CEZZ	R	0.033	250V	Mylar	AC
C3805	VCQYTA1HM472J	R	4700p	50V	Mylar	AB
C3806	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3807	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3808	RC-FZ0373CEZZ	R	0.033	250V	Mylar	AC
C3809	VCQYTA1HM472J	R	4700p	50V	Mylar	AB
C3810	RC-KZ0153CEZZ	R	1000p	3kV	Ceramic	AB
C3811	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C3812	VCEA0A1HW335M	R	3.3	50V	Electrolytic	AB
C3813	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3814	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3815	RC-FZ0373CEZZ	R	0.033	250V	Mylar	AC
C3816	VCQYTA1HM472J	R	4700p	50V	Mylar	AB
C3817	VCEA0A2EW106M	R	10	250V	Electrolytic	AD
C3818	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C3851	VCEA0A1EW476M	R	47	25V	Electrolytic	AB
C3852	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3853	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3854	VCKYPA2HB472K	R	4700p	500V	Ceramic	AB
C3855	VCKYPA2HB472K	R	4700p	500V	Ceramic	AB
C3856	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C3857	VCEA0A1EW476M	R	47	25V	Electrolytic	AB
C3858	VCEA0A2CW106M	R	10	160V	Electrolytic	AD
C3859	VCEA0A1EW476M	R	47	25V	Electrolytic	AB
C3860	VCEA0A2CW106M	R	10	160V	Electrolytic	AD
C3861	VCCSPA2HL560K	R	56p	500V	Ceramic	AA

RESISTORS

R3801	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R3802	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R3803	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R3804	VRS-VV3DB823J	R	82k	2W	Metal Oxide	AA
R3805	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R3806	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R3807	VRC-MA2HG152K	R	1.5k	1/2W	Solid	AA
R3810	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R3811	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R3812	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R3813	VRS-VV3DB823J	R	82k	2W	Metal Oxide	AA
R3814	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R3815	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R3816	VRC-MA2HG152K	R	1.5k	1/2W	Solid	AA
R3817	VRD-RA2BE182J	R	1.8k	1/8W	Carbon	AA
R3818	VRD-RA2BE153J	R	15k	1/8W	Carbon	AA
R3819	VRD-RA2BE392J	R	3.9k	1/8W	Carbon	AA
R3820	VRD-RA2BE154J	R	150k	1/8W	Carbon	AA
R3821	VRD-RA2BE333J	R	33k	1/8W	Carbon	AA
R3822	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R3823	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R3824	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R3825	VRS-VV3DB823J	R	82k	2W	Metal Oxide	AA
R3826	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R3827	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R3828	VRC-MA2HG152K	R	1.5k	1/2W	Solid	AA
R3829	VRD-RM2HD224J	R	220k	1/2W	Carbon	AA
R3830	VRD-RA2BE223J	R	22k	1/8W	Carbon	AA
R3831	VRD-RA2BE223J	R	22k	1/8W	Carbon	AA
R3832	VRD-RA2EE680J	R	68	1/4W	Carbon	AA
R3851	VRD-RM2HD560J	R	56	1/2W	Carbon	AA
R3852	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R3853	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R3854	VRD-RA2BE100J	R	10	1/8W	Carbon	AA

Ref. No.	Part No.	★	Description			Code
R3855	VRD-RA2BE820J	R	82	1/8W	Carbon	AA
R3857	VRD-RA2BE820J	R	82	1/8W	Carbon	AA
R3858	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R3859	VRD-RA2BE683J	R	68k	1/8W	Carbon	AA
R3860	VRD-RA2BE683J	R	68k	1/8W	Carbon	AA
R3861	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R3862	VRD-RA2BE123J	R	12k	1/8W	Carbon	AA
R3863	VRS-VV3DB821J	R	820	2W	Metal Oxide	AA
R3864	VRD-RA2EE560J	R	56	1/4W	Carbon	AA
R3865	VRD-RA2EE560J	R	56	1/4W	Carbon	AA
R3866	VRD-RA2EE2R7J	R	2.7	1/4W	Carbon	AA
R3867	VRD-RA2EE2R7J	R	2.7	1/4W	Carbon	AA
R3868	VRS-VV3DB221J	R	220	2W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB3851	RBLN-0047CEZZ	R	Ferrite Bead		AB
P3801	QPLGN0861CEZZ	R	Plug, 8-pin (KY)		AC
P3802	QPLGN0761CEZZ	R	Plug, 7-pin (H)		AD
P3851	QPLGN0261CEZZ	R	Plug, 2-pin (PU)		AB
RDA3853	PRDAR0083PEFW	J	Heat Sink, for Q3853		AD
RDA3854	PRDAR0083PEFW	J	Heat Sink, for Q3854		AD
⚠ SC3800	QSOCV0936CEZZ	R	CRT Socket		AM
SC3801	QTiPM0083CEZZ	R	Tip (L1)		AB
SC3803	QTiPM0083CEZZ	R	Tip (K851)		AB
SC3804	QTiPM0083CEZZ	R	Tip (L2)		AB
	LHLDW1067PEKZ	J	Holder		AC
	LX-BZ3100CEFD	R	Screw		AA

PWB-D DUNTK9358WEV1 DIG COM UNITI

NTEGRATED CIRCUIT

IC5461	VHiTC9090AN-1	R	TC9090AN	BC

TRANSISTORS

Q5461	VS2SD601AR/-1	R	2SD601AR	AC
Q5462	VS2SB709AR/-1	R	2SB709Ar	AC
Q5463	VS2SD601AR/-1	R	2SD601AR	AC
Q5464	VS2SD601AR/-1	R	2SD601AR	AC
Q5465	VS2SD601AR/-1	R	2SD601AR	AC
Q5466	VS2SB709AR/-1	R	2SB709AR	AC
Q5467	VS2SD601AR/-1	R	2SD601AR	AC
Q5861	VS2SD601AR/-1	R	2SD601AR	AC
Q5862	VS2SD601AR/-1	R	2SD601AR	AC
Q5863	VS2SB709AR/-1	R	2SB709AR	AC
Q5864	VS2SD601AR/-1	R	2SD601AR	AC

DIODES

D5461	RH-EX0619GEZZ	R	Zener Diode	AA
D5462	RH-EX0619GEZZ	R	Zener Diode	AA

COILS

L5461	VP-DF100K0000	R	Peaking 10µH	AB
L5462	VP-DF100K0000	R	Peaking 10µH	AB
L5463	VP-DF101K0000	R	Peaking 100µH	AB
L5464	VP-DF101K0000	R	Peaking 100µH	AB
L5465	VP-XF330K0000	R	Peaking 33µH	AB
L5466	VP-XF330K0000	R	Peaking 33µH	AB
L5467	VP-DF101K0000	R	Peaking 100µH	AB
L5468	VP-DF101K0000	R	Peaking 100µH	AB
L5469	VP-DF101K0000	R	Peaking 100µH	AB
L5471	VP-DF101K0000	R	Peaking 100µH	AB
L5472	VP-XF470K0000	R	Peaking 47µH	AB
L5473	VP-XF470K0000	R	Peaking 47µH	AB
L5862	VP-XF220K0000	R	Peaking 22µH	AB
L5863	VP-DF101K0000	R	Peaking 100µH	AB

CONTROL

R5467	RVR-M4619GEZZ	R	Video Level Adj.	AB

CAPACITORS

C5405	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C5460	VCEA0A0JW477M	R	470	6.3V	Electrolytic	AC
C5461	VCEA0A0JW477M	R	470	6.3V	Electrolytic	AC
C5462	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5463	VCEA0A1CW107M	R	100	16V	Electrolytic	AC
C5464	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5465	VCCCCY1HH150J	R	15p	50V	Ceramic	AA
C5466	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C5467	VCCCCY1HH150J	R	15p	50V	Ceramic	AA
C5468	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C5469	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C5470	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5471	VCEA0A1HW474M	R	0.47	50V	Electrolytic	AB
C5472	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5473	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5474	VCEA0A0JW477M	R	470	6.3V	Electrolytic	AC
C5475	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5476	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5477	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5478	VCEA0A0JW477M	R	470	6.3V	Electrolytic	AC
C5479	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5480	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5481	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5482	VCCCCY1HH181J	R	180p	50V	Ceramic	AA
C5483	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5484	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5485	VCCCCY1HH121J	R	120p	50V	Ceramic	AA
C5486	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5487	VCEA0A0JW477M	R	470	6.3V	Electrolytic	AC
C5488	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5489	VCCCCY1HH220J	R	22p	50V	Ceramic	AA
C5490	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C5491	VCCCCY1HH220J	R	22p	50V	Ceramic	AA
C5492	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C5493	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5494	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C5861	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C5863	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C5864	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C5865	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C5866	VCCCCY1HH560J	R	56p	50V	Ceramic	AA

RESISTORS

RJ1	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ2	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ3	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
R5461	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5462	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5463	VRS-CY1JF473J	R	47k	1/16W	Metal Oxide	AA
R5464	VRS-CY1JF333J	R	33k	1/16W	Metal Oxide	AA
R5465	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5466	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R5468	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5469	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5470	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R5471	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R5472	VRS-CY1JF822J	R	8.2k	1/16W	Metal Oxide	AA
R5473	VRS-CY1JF123J	R	12k	1/16W	Metal Oxide	AA
R5474	VRD-RA2BE821J	R	820	1/8W	Carbon	AA
R5475	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5476	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5477	VRS-CY1JF473J	R	47k	1/16W	Metal Oxide	AA
R5478	VRS-CY1JF223J	R	22k	1/16W	Metal Oxide	AA
R5479	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5480	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R5481	VRS-CY1JF152J	R	1.5k	1/16W	Metal Oxide	AA
R5482	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5483	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R5484	VRS-CY1JF103J	R	10k	1/16W	Metal Oxide	AA
R5485	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R5486	VRS-CY1JF821J	R	820	1/16W	Metal Oxide	AA
R5861	VRD-RA2BE821J	R	820	1/8W	Carbon	AA
R5862	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R5864	VRS-CY1JF123J	R	12k	1/16W	Metal Oxide	AA
R5865	VRS-CY1JF332J	R	3.3k	1/16W	Metal Oxide	AA
R5866	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R5867	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R5868	VRS-CY1JF102J	R	1.0k 1/16W Metal Oxide	AA
R5869	VRS-CY1JF102J	R	1.0k 1/16W Metal Oxide	AA
R5870	VRS-CY1JF102J	R	1.0k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

P5450	QPLGN0785CEZZ	R	Plug, 7-pin (YA)	AC
P5451	QPLGN0785CEZZ	R	Plug, 7-pin (YB)	AC
SLD5451	PSLDM0212PEFW	J	Shield	AE
SLD5452	PSLDM0213PEFW	J	Shield	AD

PWB-E DUNTKA049WEV0 CONTROL UNIT

INTEGRATED CIRCUIT

IC1351	VHiAN7108//-1	R	AN7108	AL

TRANSISTORS

Q1200	VS2SA1015G/1E	R	2SA1015G	AC
Q1201	VS2SC1815GW-1	R	2SC1815GW	AB
Q1202	VS2SC1815GW-1	R	2SC1815GW	AB
Q1203	VS2SC1815GW-1	R	2SC1815GW	AB
Q1204	VS2SC1815GW-1	R	2SC1815GW	AB

DIODES

D1200	RH-PX0274CEZZ	R	LED, SAVE	AC
D1201	RH-PX0274CEZZ	R	LED, ON TIMER	AC
D1202	RH-PX0414CEZZ	R	LED, POWERON/OFF	AE
D1203	RH-EX0631GEZZ	R	Zener Diode	AA
D1204	RH-EX0631GEZZ	R	Zener Diode	AA

CAPACITORS

C1200	VCKYPA1HB102K	R	1000p	50V	Ceramic	AA
C1201	VCKYPA1HB102K	R	1000p	50V	Ceramic	AA
C1202	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1203	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C1204	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1205	VCEA0A0JW107M	R	100	6.3V	Electrolytic	AB
C1209	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1210	VCKYPA1HB221K	R	220p	50V	Ceramic	AA
C1211	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1212	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1351	VCFYFA1HA154J	R	0.15	50V	Mylar	AC
C1352	VCFYFA1HA154J	R	0.15	50V	Mylar	AC
C1353	VCKYPA1HB682K	R	6800p	50V	Ceramic	AA
C1354	VCKYPA1HB682K	R	6800p	50V	Ceramic	AA
C1355	VCEA0A1AW107M	R	100	10V	Electrolytic	AB
C1356	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C1357	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C1358	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C1359	VCEA0A0JW337M	R	330	6.3V	Electrolytic	AC
C1360	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C1361	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C1362	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C1363	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1364	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA
C1365	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA

RESISTORS

R1201	VRD-RA2BE273J	R	27k	1/8W	Carbon	AA
R1202	VRD-RA2BE822J	R	8.2k	1/8W	Carbon	AA
R1203	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R1204	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R1206	VRD-RA2BE273J	R	27k	1/8W	Carbon	AA
R1207	VRD-RA2BE102J	R	1.0k	1/8W	Carbon	AA
R1208	VRD-RA2BE102J	R	1.0k	1/8W	Carbon	AA
R1209	VRD-RA2BE102J	R	1.0k	1/8W	Carbon	AA
R1210	VRD-RA2EE750J	R	75	1/4W	Carbon	AA
R1212	VRD-RA2BE102J	R	1.0k	1/8W	Carbon	AA
R1213	VRD-RA2EE750J	R	75	1/4W	Carbon	AA
R1214	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R1215	VRD-RA2BE152J	R	1.5k	1/8W	Carbon	AA
R1216	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R1217	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R1218	VRD-RA2BE152J	R	1.5k	1/8W	Carbon	AA
R1219	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R1220	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R1221	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R1222	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R1223	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R1224	VRD-RA2BE471J	R	470	1/8W	Carbon	AA
R1225	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R1226	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R1227	VRD-RM2HD101J	R	100	1/2W	Carbon	AA
R1228	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R1229	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R1351	VRD-RA2BE474J	R	470k	1/8W	Carbon	AA
R1352	VRD-RA2BE474J	R	470k	1/8W	Carbon	AA
R1353	VRD-RA2BE123J	R	12k	1/8W	Carbon	AA
R1354	VRD-RA2BE123J	R	12k	1/8W	Carbon	AA
R1355	VRD-RA2BE123J	R	12k	1/8W	Carbon	AA
R1356	VRD-RA2BE223J	R	22k	1/8W	Carbon	AA
R1357	VRD-RA2BE223J	R	22k	1/8W	Carbon	AA
R1358	VRD-RA2BE123J	R	12k	1/8W	Carbon	AA
R1361	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R1363	VRD-RA2BE121J	R	120	1/8W	Carbon	AA
R1364	VRD-RA2BE121J	R	120	1/8W	Carbon	AA
R1365	VRD-RA2BE392J	R	3.9k	1/8W	Carbon	AA
R1366	VRD-RA2BE121J	R	120	1/8W	Carbon	AA
R1367	VRD-RA2BE392J	R	3.9k	1/8W	Carbon	AA
R1368	VRD-RA2BE121J	R	120	1/8W	Carbon	AA

MISCELLANEOUS PARTS

S1200	QSW-K0079GEZZ	R	CH-Up	AB
S1201	QSW-K0079GEZZ	R	CH-Down	AB
S1202	QSW-K0079GEZZ	R	VOL-Up	AB
S1203	QSW-K0079GEZZ	R	VOL-Down	AB
S1204	QSW-K0079GEZZ	R	Preset/Menu	AB
S1205	QSW-P0588CEZZ	R	AC Switch	AP
J1200	QJAKJ0047CEZZ	R	Jack, Headphone	AD
J1201	QJAKZ0101PEZZ	J	Jack, AV-3 IN	AN
P1201	QPLGN0161FJZZ	R	Plug, 6-pin (AB)	
P1202	QPLGN0861CEZZ	R	Plug, 8-pin (Y)	AC
P1203	QPLGN0761CEZZ	R	Plug, 7-pin (LE)	AD
P1204	QPLGN1061CEZZ	R	Plug, 10-pin (HP)	AC
RMC1200	RRMCU0235CEZZ	R	R/C Receiver	AK
SLD1351	PSLDM0237PEFW	J	Shield	AD
	LHLDP1056PE00	J	Holder	AC

PWB-G DUNTK8558WEW0 (29A-FX5) TEXT UNIT

INTEGRATED CIRCUITS

IC1801	VHiLH64256C-1	R	LH64256C	AY
IC1802	RH-iX2451CEZZ	R	SAA5249P	BB

TRANSISTORS

Q1801	VS2SC1815GW-1	R	2SC1815GW	AB
Q1802	VS2SA1015Y/1E	R	2SA1015(Y)	AC
Q1803	VS2SC1815GW-1	R	2SC1815GW	AB
Q1804	VS2SC1815GW-1	R	2SC1815GW	AB
Q1805	VS2SC1815GW-1	R	2SC1815GW	AB

DIODES

D1801	RH-DX0475CEZZ	R	Diode	AB
D1802	RH-DX0475CEZZ	R	Diode	AB
D1803	RH-EX0619GEZZ	R	Zener Diode	AA
D1804	RH-EX0619GEZZ	R	Zener Diode	AA

PACKAGED CIRCUIT

X1801	RCRSB0006PEZZ	J	Crystal	AK

COILS

L1801	VP-DF100K0000	R	Peaking 10µH	AB
L1802	VP-XF1R0K0000	R	Peaking 1µH	AB

Ref. No.	Part No.	★	Description	Code
L1803	VP-DF100K0000	R	Peaking 10µH	AB

CAPACITORS

C1801	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1802	VCEA0A1AW107M	R	100	10V	Electrolytic	AB
C1803	VCEA0A1AW477M	R	470	10V	Electrolytic	AC
C1804	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1806	VCKYPA1HB102K	R	1000p	50V	Ceramic	AA
C1807	VCCCPA1HH150J	R	15p	50V	Ceramic	AA
C1808	VCCCPA1HH560J	R	56p	50V	Ceramic	AA
C1810	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1811	VCE9GA1HW105M	R	1.0	50V	Elect. (N.P)	AB
C1812	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C1813	VCEA0A1AW107M	R	100	10V	Electrolytic	AB
C1814	VCEA0A1CW106M	R	10	16V	Electrolytic	AB

RESISTORS

R1801	VRD-RA2BE273J	R	27k	1/8W	Carbon	AA
R1802	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R1803	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R1804	VRD-RA2BE682J	R	6.8k	1/8W	Carbon	AA
R1805	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R1806	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R1807	VRD-RA2BE100J	R	10	1/8W	Carbon	AA
R1808	VRD-RA2BE821J	R	820	1/8W	Carbon	AA
R1809	VRD-RA2BE821J	R	820	1/8W	Carbon	AA
R1810	VRD-RA2BE102J	R	1.0k	1/8W	Carbon	AA
R1811	VRD-RA2BE102J	R	1.0k	1/8W	Carbon	AA
R1812	VRD-RA2BE102J	R	1.0k	1/8W	Carbon	AA
R1813	VRD-RA2BE471J	R	470	1/8W	Carbon	AA
R1814	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R1816	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R1817	VRD-RA2BE100J	R	10	1/8W	Carbon	AA
R1818	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R1819	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R1820	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R1822	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R1823	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R1824	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R1825	VRD-RA2BE822J	R	8.2k	1/8W	Carbon	AA
R1826	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA

MISCELLANEOUS PARTS

P1801	QPLGN0885CEZZ	R	Plug, 8-pin (TX)	AC
P1802	QPLGN0785CEZZ	R	Plug, 7-pin (TE)	AC
SLD1801	PSLDM0174PEFW	J	Shield	AD
SLD1802	PSLDM0175PEFW	J	Shield	AD

PWB-H DUNTKA048WEW0 SUB POWER UNIT

INTEGRATED CIRCUITS

IC2700	VHiMiP0253/-1	R	MIP0253SP		AM
⚠ IC2701	RH-FX0008GEZZ	R	PC123FY8		AE
IC2750	VHiSi3051N/-1	R	SI3051N		AL

TRANSISTORS

Q2750	VS2SC1815GW-1	R	2SC1815GW		AB
Q2751	VS2SC1959Y/1E	R	2SC1959(Y)		AC

DIODES

D2700	RH-DX0083GEZZ	R	Diode		AC
D2750	RH-DX0407CEZZ	R	Diode		AD
D2751	RH-DX0475CEZZ	R	Diode		AB
D2752	RH-EX1329CEZZ	R	Zener Diode		AD
D2754	RH-DX0475CEZZ	R	Diode		AB
⚠ VA2700	RH-VX0048CEZZ	R	Varistor		AE

PACKAGED CIRCUIT

PR2700	RMPTP0085CEZZ	R	Packaged Circuit		AL

COIL AND TRANSFORMER

⚠ L2700	RCiLF0138CEZZ	R	Coil		AQ
⚠ T2700	RTRNZ0159PEZZ	J	Transformer		AK

CAPACITORS

⚠ C2700	RC-FZ017SCEZZ	R	0.47	AC250V		AD
C2701	VCFYSB2EB224K	R	0.22	250V	Mylar	AD
C2703	RC-KZ0029CEZZ	R	0.01	AC250V	Ceramic	AC
C2705	VCEA0A2GW475M	R	4.7	400V	Electrolytic	AE
C2706	RC-KZ1022CEZZ	R	47p	1kV	Ceramic	AC
C2707	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
⚠ C2708	RC-FZ016SGEZZ	R	0.047	AC250V		AK
⚠ C2709	RC-KZ016SCEZZ	R	0.047	AC250V	Ceramic	AD
C2750	VCKYPA2HB221K	R	220p	500V	Ceramic	AA
C2751	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C2752	VCEA0A1AW227M	R	220	10V	Electrolytic	AB
C2753	VCKYPA1HF103Z	R	0.01	50V	Ceramic	AA

RESISTORS

⚠ R2700	VRC-UA2HG275K	R	2.7M	1/2W	Solid	AA
R2701	VRD-RM2HD391J	R	390	1/2W	Carbon	AA
R2702	VRW-KP3HC100J	R	10	5W	Cement	AD
R2750	VRD-RA2BE562J	R	5.6k	1/8W	Carbon	AA
R2751	VRD-RA2BE332J	R	3.3k	1/8W	Carbon	AA

MISCELLANEOUS PARTS

⚠ RY2700	RRLYJ0087CEZZ	R	Relay		AM
⚠ F2700	QFS-C5022CEZZ	R	Fuse T5A 250V		AD
FB2700	RBLN-0037CEZZ	R	Ferrite Bead		AB
FB2750	RBLN-0037CEZZ	R	Ferrite Bead		AB
FH2700	QFSHD1013CEZZ	R	Fuse Holder		AC
FH2701	QFSHD1014CEZZ	R	Fuse Holder		AC
P2700	QPLGN0269GEZZ	R	Plug, 2-pin (AA)		AB
P2701	QPLGN0505CEZZ	R	Plug, 5-pin (AB)		AB
P2702	QPLGN0207CEZZ	R	Plug, 2-pin (G)		AA
P2703	QPLGN0304CEZZ	R	Plug, 3-pin (AC)		AB
P2750	QPLGN0361CEZZ	R	Plug, 3-pin (XA)		AB
	LHLDW1037PEZZ	J	Holder		AB

PWB-I DUNTK8963WEV0/V2 NICAM UNIT

INTEGRATED CIRCUITS

IC2300	VHiMSP3410D-1	R	MSP3410D	BK
IC2301	VHiTDA9808T-1	R	TDA9808T	AR
IC2302	VHiAN7397K/-1	R	AN7397K	AX
IC2770	RH-iX3232CEZZ	R	SSE96G	AV
IC2771	VHiBA15218F-1	R	BA15218F	AD

TRANSISTORS

Q2300	VS2SC2735//1E	R	2SC2735	AC
Q2301	VS2SD601AR/-1	R	2SD601AR	AC
Q2302	VS2SC2735//1E	R	2SC2735	AC
Q2770	VS2SD601AR/-1	R	2SD601AR	AC
Q2771	VS2SD601AR/-1	R	2SD601AR	AC
Q2772	VS2SD601AR/-1	R	2SD601AR	AC
Q2773	VS2SD601AR/-1	R	2SD601AR	AC
Q2774	VS2SD601AR/-1	R	2SD601AR	AC
Q2775	VS2SD601AR/-1	R	2SD601AR	AC
Q2776	VS2SD601AR/-1	R	2SD601AR	AC

DIODES

D2300	RH-EX1222CEZZ	R	Zener Diode	AE
D2301	RH-EX1222CEZZ	R	Zener Diode	AE
D2302	RH-DX0475CEZZ	R	Diode	AB
D2303	RH-DX0475CEZZ	R	Diode	AB

PACKAGED CIRCUITS

X2301	RCRSB0249GEZZ	R	Crystal	AF

COILS

L2300	VP-DF120K0000	R	Peaking 12µH	AB
L2301	VP-DF120K0000	R	Peaking 12µH	AB
L2302	VP-DF120K0000	R	Peaking 12µH	AB
L2303	VP-XF220K0000	R	Peaking 22µH	AB

Ref. No.	Part No.	★	Description	Code
L2304	VP-XF1R2K0000	R	Peaking 1.2µH	AB
SF2300	RFiLC0016PEZZ	J	SAW Filter	AS
T2300	RCiLD0231CEZZ	R	Detection Coil	AF

CAPACITORS

C2300	VCCCCY1HH1R5C	R	1.5p	50V	Ceramic	AD
C2301	VCCCCY1HH1R5C	R	1.5p	50V	Ceramic	AD
C2302	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C2303	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C2305	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C2306	VCKYCY1EF104Z	R	0.1	25V	Ceramic	AA
C2307	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C2308	VCKYCY1EF104Z	R	0.1	25V	Ceramic	AA
C2309	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C2310	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2311	VCKYCY1CF334Z	R	0.33	16V	Ceramic	AA
C2312	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2313	VCFYFA1HA334J	R	0.33	50V	Mylar	AB
C2314	VCFYFA1HA334J	R	0.33	50V	Mylar	AB
C2315	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2316	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2317	VCEA0A1HW335M	R	3.3	50V	Electrolytic	AB
C2318	VCKYCY1EF104Z	R	0.1	25V	Ceramic	AA
C2319	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C2320	VCKYCY1EF104Z	R	0.1	25V	Ceramic	AA
C2321	VCEA0A1CW227M	R	220	16V	Electrolytic	AC
C2322	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C2323	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C2324	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C2325	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2326	VCCCCY1HH151J	R	150p	50V	Ceramic	AA
C2327	VCEA0A1AW477M	R	470	10V	Electrolytic	AC
C2328	VCKYCY1EF104Z	R	0.1	25V	Ceramic	AA
C2329	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C2330	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C2331	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C2334	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C2335	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C2336	VCKYCY1HB102K	R	1000p	50V	Ceramic	AA
C2337	VCCCCY1HH330J	R	33p	50V	Ceramic	AA
C2338	VCCCCY1HH330J	R	33p	50V	Ceramic	AA
C2339	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2341	VCEA0A1HW104M	R	0.1	50V	Electrolytic	AB
C2342	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C2343	VCE9GA1HW105M	R	1.0	50V	Elect. (N.P)	AB
C2344	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2345	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2346	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2347	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C2348	VCFYFA1HA124J	R	0.12	50V	Mylar	AC
C2349	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2350	VCKYCY1EF104Z	R	0.1	25V	Ceramic	AA
C2351	VCEA0A1CW226M	R	22	16V	Electrolytic	AB
C2352	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C2353	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C2354	VCKYCY1EF104Z	R	0.1	25V	Ceramic	AA
C2355	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2356	VCE9GA1CW226M	R	22	16V	Elect. (N.P)	AB
C2357	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C2358	VCEA0A1CW336M	R	33	16V	Electrolytic	AB
C2359	VCQYTA1HM473J	R	0.047	50V	Mylar	AA
C2360	VCQYTA1HM473J	R	0.047	50V	Mylar	AA
C2370	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2371	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2372	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2373	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C2374	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2375	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2376	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2377	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2379	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C2380	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C2770	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C2771	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C2772	VCKYCY1HB152K	R	1500p	50V	Ceramic	AA
C2773	VCEA0A1CW107M	R	100	16V	Electrolytic	AC
C2774	VCKYCY1HB152K	R	1500p	50V	Ceramic	AA
C2775	VCKYCY1EB103K	R	0.01	25V	Ceramic	AA
C2776	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C2777	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C2778	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C2779	VCEA0A1CW337M	R	330	16V	Electrolytic	AC
C2780	VCCCCY1HH560J	R	56p	50V	Ceramic	AA
C2787	VCEA0A1HW224M	R	0.22	50V	Electrolytic	AB

RESISTORS

RJ71	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ72	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ73	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ74	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ75	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ76	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ77	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
RJ78	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
R2301	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
⚠ R2302	RR-XZ0029CEZZ	R	3.3	1/2W	Fuse Resistor	AB
R2303	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R2304	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R2305	VRS-CY1JF222J	R	2.2k	1/16W	Metal Oxide	AA
R2306	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R2307	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R2308	VRS-CY1JF000J	R	0	1/16W	Metal Oxide	AA
R2309	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R2310	VRS-CY1JF221J	R	220	1/16W	Metal Oxide	AA
R2311	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R2312	VRS-CY1JF152J	R	1.5k	1/16W	Metal Oxide	AA
R2313	VRS-CY1JF221J	R	220	1/16W	Metal Oxide	AA
R2314	VRS-CY1JF393J	R	39k	1/16W	Metal Oxide	AA
R2315	VRS-CY1JF183J	R	18k	1/16W	Metal Oxide	AA
R2316	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R2317	VRS-CY1JF223J	R	22k	1/16W	Metal Oxide	AA
R2318	VRS-CY1JF181J	R	180	1/16W	Metal Oxide	AA
R2319	VRS-CY1JF183J	R	18k	1/16W	Metal Oxide	AA
R2320	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R2321	VRS-CY1JF823J	R	82k	1/16W	Metal Oxide	AA
R2322	VRS-CY1JF823J	R	82k	1/16W	Metal Oxide	AA
R2323	VRS-CY1JF225J	R	2.2M	1/16W	Metal Oxide	AA
R2324	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R2325	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R2326	VRS-CY1JF122J	R	1.2k	1/16W	Metal Oxide	AA
R2327	VRS-CY1JF392J	R	3.9k	1/16W	Metal Oxide	AA
R2328	VRD-RA2BE151J	R	150	1/8W	Carbon	AA
R2332	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R2333	VRS-CY1JF471J	R	470	1/16W	Metal Oxide	AA
R2350	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R2351	VRS-CY1JF101J	R	100	1/16W	Metal Oxide	AA
R2352	VRS-CY1JF154J	R	150k	1/16W	Metal Oxide	AA
R2768	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R2769	VRS-CY1JF563J	R	56k	1/16W	Metal Oxide	AA
⚠ R2770	RR-XZ0029CEZZ	R	3.3	1/2W	Fuse Resistor	AB
R2771	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R2772	VRS-CY1JF391J	R	390	1/16W	Metal Oxide	AA
R2773	VRS-CY1JF471J	R	470	1/16W	Metal Oxide	AA
R2774	VRS-CY1JF471J	R	470	1/16W	Metal Oxide	AA
R2775	VRS-CY1JF100J	R	10	1/16W	Metal Oxide	AA
R2776	VRS-CY1JF100J	R	10	1/16W	Metal Oxide	AA
R2777	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R2778	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R2779	VRS-CY1JF333J	R	33k	1/16W	Metal Oxide	AA
R2780	VRS-CY1JF563J	R	56k	1/16W	Metal Oxide	AA
R2781	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R2782	VRS-CY1JF102J	R	1.0k	1/16W	Metal Oxide	AA
R2783	VRS-CY1JF471J	R	470	1/16W	Metal Oxide	AA
R2784	VRS-CY1JF100J	R	10	1/16W	Metal Oxide	AA
R2785	VRS-CY1JF391J	R	390	1/16W	Metal Oxide	AA
R2786	VRS-CY1JF561J	R	560	1/16W	Metal Oxide	AA
R2787	VRS-CY1JF471J	R	470	1/16W	Metal Oxide	AA
R2788	VRS-CY1JF100J	R	10	1/16W	Metal Oxide	AA
R2789	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA
R2790	VRS-CY1JF472J	R	4.7k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R2791	VRS-CY1JF333J	R	33k 1/16W Metal Oxide	AA
R2792	VRS-CY1JF472J	R	4.7k 1/16W Metal Oxide	AA
R2793	VRS-CY1JF471J	R	470 1/16W Metal Oxide	AA
R2794	VRD-RM2HD561J	R	560 1/2W Carbon	AA
R2795	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R2796	VRS-CY1JF222J	R	2.2k 1/16W Metal Oxide	AA
R2797	VRS-CY1JF272J	R	2.7k 1/16W Metal Oxide	AA
R2798	VRS-CY1JF332J	R	3.3k 1/16W Metal Oxide	AA
R2799	VRD-RM2HD561J	R	560 1/2W Carbon	AA

MISCELLANEOUS PARTS

P2300	QPLGN0274FJZZ	R	Plug, 20-pin (NI)	AE
SLD2301	PSLDM0281PEFW	J	Shield	AD
SLD2302	PSLDM0282PEFW	J	Shield	AD
TP2300	QLUGP0102PEZZ	J	Lug	AA

PWB-J DUNTK9861WEV5/V6 VCJ UNIT

INTEGRATED CIRCUITS

IC2401	VHiTA78L09S-1	R	TA78L09S	AC
IC2801	RH-iX3323CEZZ	R	TA1298BN	BB
IC2803	VHiTA7348P/-1	J	TA7348P (29A-FX5)	AK
IC2806	VHiTA8772AN-1	R	TA8772AN	AV
IC2807	VHiM52055FP-1	R	M52055FP	AH
IC2901	VHiTA1229N/-1	R	TA1229N	AX

TRANSISTORS

Q2402	VS2SB709AR/-1	R	2SB709AR	AC
Q2404	VS2SD601AR/-1	R	2SD601AR	AC
Q2405	VS2SB709AR/-1	R	2SB709AR	AC
Q2406	VS2SD601AR/-1	R	2SD601AR	AC
Q2407	VS2SD601AR/-1	R	2SD601AR	AC
Q2408	VS2SD601AR/-1	R	2SD601AR	AC
Q2409	VS2SD601AR/-1	R	2SD601AR	AC
Q2410	VS2SD601AR/-1	R	2SD601AR	AC
Q2411	VS2SD601AR/-1	R	2SD601AR	AC
Q2601	VS2SD601AR/-1	R	2SD601AR	AC
Q2801	VS2SD601AR/-1	R	2SD601AR	AC

DIODES

D2403	RH-DX0475CEZZ	R	Diode	AB
D2405	RH-DX0475CEZZ	R	Diode	AB
D2406	RH-EX0619GEZZ	R	Zener Diode	AA
D2407	RH-EX0619GEZZ	R	Zener Diode	AA
D2408	RH-EX0619GEZZ	R	Zener Diode	AA
D2409	RH-DX0475CEZZ	R	Diode	AB
D2410	RH-DX0475CEZZ	R	Diode	AB
D2411	RH-EX0260TAZZ	R	Zener Diode	AC
D2412	RH-EX0260TAZZ	R	Zener Diode	AC

PACKAGED CIRCUITS

X2401	RCRSB0278CEZZ	R	Crystal, 4.43MHz	AG
X2402	RCRSB0277CEZZ	R	Crystal, 3.58MHz	AG
X2901	RCRSB0004PEZZ	J	Crystal, 4MHz	AH

FILTERS AND COILS

CF2401	RFiLA0034CEZZ	R	Ceramic Filter	AD
L2401	VP-DF4R7K0000	R	Peaking 4.7µH	AB
L2402	VP-DF4R7K0000	R	Peaking 4.7µH	AB
L2403	VP-DF4R7K0000	R	Peaking 4.7µH	AB
L2404	VP-DF101K0000	R	Peaking 100µH	AB
L2405	VP-XF270K0000	R	Peaking 27µH	AB
L2406	VP-XF180K0000	R	Peaking 18µH	AB
L2901	VP-XF120K0000	R	Peaking 12µH	AB

CAPACITORS

C2401	VCCCCY1HH120J	R	12p	50V	Ceramic	AA
C2402	VCCCCY1HH120J	R	12p	50V	Ceramic	AA
C2403	VCQYTA1HM222J	R	2200p	50V	Mylar	AA
C2404	VCEA0A1HW224M	R	0.22	50V	Electrolytic	AB
C2405	VCEA0A1CW107M	R	100	16V	Electrolytic	AC
C2406	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2407	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C2409	VCQYTA1HM223J	R	0.022	50V	Mylar	AA
C2410	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C2411	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2412	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C2413	VCKYCY1EB103K	R	0.01	25V	Ceramic	AA
C2414	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2415	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2416	VCKYCY1CB104K	R	0.1 (29A-FX5)	16V	Ceramic	AB
C2417	VCKYCY1CB104K	R	0.1 (29A-FX5)	16V	Ceramic	AB
C2418	VCKYCY1CB104K	R	0.1 (29A-FX5)	16V	Ceramic	AB
C2419	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2420	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2421	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2422	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2423	VCEA0A1CW107M	R	100	16V	Electrolytic	AC
C2424	VCCCCY1HH470J	R	47p	50V	Ceramic	AA
C2425	VCCCCY1HH470J	R	47p	50V	Ceramic	AA
C2426	VCCCCY1HH470J	R	47p	50V	Ceramic	AA
C2427	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2428	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C2429	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2430	VCEA0A1CW107M	R	100	16V	Electrolytic	AC
C2431	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C2432	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C2433	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2437	VCEA0A1CW106M	R	10 (29A-FX5)	16V	Electrolytic	AB
C2438	VCKYCY1HF103Z	R	0.01 (29A-FX5)	50V	Ceramic	AA
C2439	VCEA0A1CW106M	R	10 (29A-FX5)	16V	Electrolytic	AB
C2441	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2442	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C2445	VCFYFA1HA334J	R	0.33	50V	Mylar	AB
C2446	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C2450	VCKYCY1HF103Z	R	0.01 (29A-FX8)	50V	Ceramic	AA
C2451	VCKYCY1HF103Z	R	0.01 (29A-FX8)	50V	Ceramic	AA
C2452	VCKYCY1HF103Z	R	0.01 (29A-FX8)	50V	Ceramic	AA
C2454	VCKYCY1EB822K	R	8200p	25V	Ceramic	AA
C2455	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2456	VCKYCY1HB561K	R	560p	50V	Ceramic	AA
C2457	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2458	VCFYFA1HA334J	R	0.33	50V	Mylar	AB
C2459	VCQYTA1HM104J	R	0.1	50V	Mylar	AA
C2460	VCCCCY1HH820J	R	82p	50V	Ceramic	AA
C2801	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2802	VCEA0A1HW474M	R	0.47	50V	Electrolytic	AB
C2803	VCEA0A1HW474M	R	0.47	50V	Electrolytic	AB
C2804	VCEA0A1CW477M	R	470	16V	Electrolytic	AC
C2805	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2806	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2807	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2808	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2809	VCEA0A1CW106M	R	10	16V	Electrolytic	AB
C2810	VCEA0A1HW474M	R	0.47	50V	Electrolytic	AB
C2811	VCEA0A1CW476M	R	47	16V	Electrolytic	AB
C2812	VCKYCY1HF103Z	R	0.01	50V	Ceramic	AA
C2813	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C2814	VCEA0A1HW225M	R	2.2	50V	Electrolytic	AB
C2815	VCEA0A1HW105M	R	1.0	50V	Electrolytic	AB
C2816	VCKYCY1CF334Z	R	0.33	16V	Ceramic	AA
C2817	VCKYCY1CF334Z	R	0.33	16V	Ceramic	AA
C2818	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2819	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2820	VCKYCY1CB104K	R	0.1	16V	Ceramic	AB
C2821	VCKYCY1CF334Z	R	0.33	16V	Ceramic	AA
C2822	VCKYCY1CF334Z	R	0.33	16V	Ceramic	AA

Ref. No.	Part No.	★				Description	Code
C2833	VCFYFA1HA684J	R	0.68		50V	Mylar	AD
C2834	VCFYFA1HA684J	R	0.68		50V	Mylar	AD
C2835	VCKYCY1CB104K	R	0.1		16V	Ceramic	AB
C2836	VCKYCY1CB104K	R	0.1		16V	Ceramic	AB
C2837	VCKYCY1CB104K	R	0.1		16V	Ceramic	AB
C2838	VCEA0A1CW106M	R	10		16V	Electrolytic	AB
C2839	VCKYCY1HF103Z	R	0.01		50V	Ceramic	AA
C2841	VCEA0A1CW106M	R	10		16V	Electrolytic	AB
C2842	VCQYTA1HM104J	R	0.1		50V	Mylar	AA
C2843	VCKYCY1HF103Z	R	0.01		50V	Ceramic	AA
C2844	VCEA0A1HW105M	R	1.0		50V	Electrolytic	AB
C2848	VCEA0A1CW106M	R	10		16V	Electrolytic	AB
C2849	VCEA0A1HW105M	R	1.0		50V	Electrolytic	AB
C2850	VCEA0A1CW106M	R	10		16V	Electrolytic	AB
C2851	VCEA0A1HW105M	R	1.0		50V	Electrolytic	AB
C2852	VCEA0A1CW106M	R	10		16V	Electrolytic	AB
C2853	VCKYCY1HF103Z	R	0.01		50V	Ceramic	AA
C2854	VCEA0A1CW476M	R	47		16V	Electrolytic	AB
C2855	VCKYCY1HF103Z	R	0.01		50V	Ceramic	AA
C2867	VCEA0A1HW475M	R	4.7		50V	Electrolytic	AB
C2901	VCCCCY1HH101J	R	100p		50V	Ceramic	AA
C2902	VCQYTA1HM223J	R	0.022		50V	Mylar	AA
C2903	VCEA0A1HW225M	R	2.2		50V	Electrolytic	AB
C2904	VCQYTA1HM683J	R	0.068		50V	Mylar	AB
C2905	VCEA0A1HW225M	R	2.2		50V	Electrolytic	AB
C2906	VCQYTA1HM223J	R	0.022		50V	Mylar	AA
C2907	VCQYTA1HM563J	R	0.056		50V	Mylar	AB
C2908	VCEA0A1CW106M	R	10		16V	Electrolytic	AB
C2909	VCCCCY1HH820J	R	82p		50V	Ceramic	AA
C2910	VCKYCY1HB102K	R	1000p		50V	Ceramic	AA
C2911	VCCCCY1HH101J	R	100p		50V	Ceramic	AA
C2912	VCCCCY1HH101J	R	100p		50V	Ceramic	AA
C2913	VCCCCY1HH101J	R	100p		50V	Ceramic	AA
C2914	VCKYCY1HF103Z	R	0.01		50V	Ceramic	AA
C2915	VCEA0A1CW476M	R	47		16V	Electrolytic	AB
C2916	VCCCCY1HH150J	R	15p		50V	Ceramic	AA

RESISTORS

RJ1	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ2	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ3	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ4	VRS-CY1JF000J	R	0	1/16W	(29A-FX8)	Metal Oxide	AA
RJ7	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ8	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ9	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ11	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ12	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ14	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ15	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ16	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ17	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ18	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ19	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ20	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ21	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ22	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ23	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ24	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ26	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
RJ27	VRS-CY1JF000J	R	0	1/16W		Metal Oxide	AA
R2401	VRD-RA2BE332J	R	3.3k	1/8W		Carbon	AA
R2402	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2403	VRS-CY1JF271J	R	270	1/16W		Metal Oxide	AA
R2405	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2406	VRS-CY1JF222J	R	2.2k	1/16W		Metal Oxide	AA
R2407	VRS-CY1JF101J	R	100	1/16W		Metal Oxide	AA
R2410	VRS-CY1JF000J	R	0	1/16W	(29A-FX8)	Metal Oxide	AA
R2410	VRS-CY1JF222J	R	2.2k	1/16W	(29A-FX5)	Metal Oxide	AA
R2411	VRD-RA2BE561J	R	560	1/8W	(29A-FX5)	Carbon	AA
R2412	VRD-RA2BE561J	R	560	1/8W	(29A-FX5)	Carbon	AA
R2413	VRD-RA2BE561J	R	560	1/8W	(29A-FX5)	Carbon	AA
R2414	VRS-CY1JF471J	R	470	1/16W		Metal Oxide	AA
R2415	VRD-RA2BE333J	R	33k	1/8W		Carbon	AA
R2416	VRD-RA2BE221J	R	220	1/8W		Carbon	AA
R2417	VRD-RA2BE221J	R	220	1/8W		Carbon	AA
R2418	VRD-RA2BE221J	R	220	1/8W		Carbon	AA
R2419	VRS-CY1JF221J	R	220	1/16W		Metal Oxide	AA
R2420	VRS-CY1JF221J	R	220	1/16W		Metal Oxide	AA
R2421	VRS-CY1JF221J	R	220	1/16W		Metal Oxide	AA
R2422	VRS-CY1JF101J	R	100	1/16W		Metal Oxide	AA
R2423	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2424	VRS-CY1JF223J	R	22k	1/16W		Metal Oxide	AA
R2426	VRS-CY1JF101J	R	100	1/16W		Metal Oxide	AA
R2427	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2429	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2433	VRS-CY1JF152J	R	1.5k	1/16W		Metal Oxide	AA
R2436	VRS-CY1JF681J	R	680	1/16W		Metal Oxide	AA
R2439	VRS-CY1JF562J	R	5.6k	1/16W		Metal Oxide	AA
R2442	VRS-CY1JF222J	R	2.2k	1/16W	(29A-FX5)	Metal Oxide	AA
R2444	VRS-CY1JF273J	R	27k	1/16W		Metal Oxide	AA
R2445	VRS-CY1JF391J	R	390	1/16W		Metal Oxide	AA
R2446	VRS-CY1JF101J	R	100	1/16W		Metal Oxide	AA
R2447	VRD-RA2BE101J	R	100	1/8W	(29A-FX5)	Carbon	AB
R2448	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2452	VRS-CY1JF271J	R	270	1/16W		Metal Oxide	AA
R2455	VRS-CY1JF223J	R	22k	1/16W		Metal Oxide	AA
R2456	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2457	VRS-CY1JF471J	R	470	1/16W		Metal Oxide	AA
R2458	VRS-CY1JF471J	R	470	1/16W		Metal Oxide	AA
R2459	VRS-CY1JF273J	R	27k	1/16W		Metal Oxide	AA
R2460	VRS-CY1JF393J	R	39k	1/16W		Metal Oxide	AA
R2462	VRS-CY1JF151J	R	150	1/16W		Metal Oxide	AA
R2463	VRS-CY1JF273J	R	27k	1/16W		Metal Oxide	AA
R2464	VRS-CY1JF393J	R	39k	1/16W		Metal Oxide	AA
R2465	VRS-CY1JF471J	R	470	1/16W		Metal Oxide	AA
R2466	VRS-CY1JF182J	R	1.8k	1/16W		Metal Oxide	AA
R2467	VRS-CY1JF471J	R	470	1/16W		Metal Oxide	AA
R2468	VRS-CY1JF100J	R	10	1/16W		Metal Oxide	AA
R2469	VRS-CY1JF473J	R	47k	1/16W		Metal Oxide	AA
R2470	VRS-CY1JF473J	R	47k	1/16W		Metal Oxide	AA
R2471	VRS-CY1JF473J	R	47k	1/16W		Metal Oxide	AA
R2503	VRS-CY1JF101J	R	100	1/16W		Metal Oxide	AA
R2601	VRS-CY1JF153J	R	15k	1/16W		Metal Oxide	AA
R2602	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2603	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2604	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2801	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2802	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2803	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2804	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2824	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2825	VRD-RA2BE391J	R	390	1/8W		Carbon	AA
R2826	VRS-CY1JF222J	R	2.2k	1/16W		Metal Oxide	AA
R2827	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2828	VRS-CY1JF471J	R	470	1/16W		Metal Oxide	AA
R2829	VRS-CY1JF561J	R	560	1/16W		Metal Oxide	AA
R2830	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2831	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2836	VRS-CY1JF100J	R	10	1/16W		Metal Oxide	AA
R2838	VRS-CY1JF100J	R	10	1/16W		Metal Oxide	AA
R2839	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2866	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2867	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2901	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2902	VRS-CY1JF561J	R	560	1/16W		Metal Oxide	AA
R2903	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2904	VRS-CY1JF475J	R	4.7M	1/16W		Metal Oxide	AA
R2905	VRS-CY1JF102J	R	1.0k	1/16W		Metal Oxide	AA
R2906	VRS-CY1JF103J	R	10k	1/16W		Metal Oxide	AA
R2907	VRS-CY1JF223J	R	22k	1/16W		Metal Oxide	AA
R2908	VRS-CY1JF101J	R	100	1/16W		Metal Oxide	AA
R2909	VRS-CY1JF101J	R	100	1/16W		Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
			MISCELLANEOUS PARTS	
P2401	QPLGZ3061CEZZ	R	Plug, 30-pin (VA)	AK
P2402	QPLGN0275FJZZ	R	Plug, 25-pin (VB)	AF
P2404	QPLGN0861CEZZ	R	Plug, 8-pin (KY)	AC
SLD2401	PSLDM0277PEFW	J	Shield	AE
SLD2402	PSLDM0278PEFW	J	Shield	AE
TP2803	QLUGP0102PEZZ	J	Lug	AA
TP2804	QLUGP0102PEZZ	J	Lug	AA
TP2805	QLUGP0102PEZZ	J	Lug	AA
TP2901	QLUGP0102PEZZ	J	Lug	AA

MISCELLANEOUS PARTS

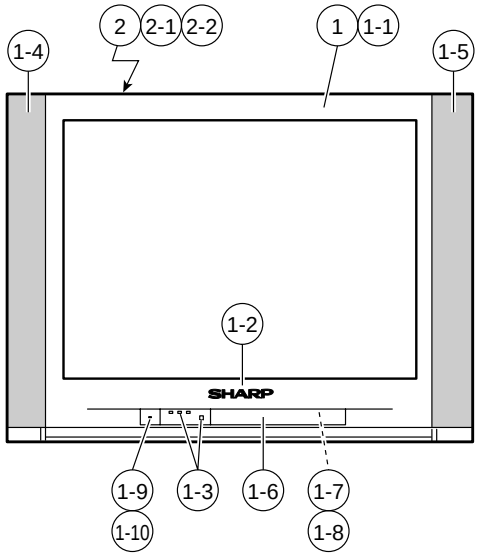
⚠	QACCZ2008PEZZ	J	AC Cord (29A-FX5, 29A-FX8H)	AM
⚠	QACCB5003PEZZ	R	AC Cord (29A-FX8B)	
	QCNW-1885PEZZ	J	Connecting Cord	AG
	QCNW-2314PEZZ	J	Connecting Cord	AE
	QCNW-2316PEZZ	J	Connecting Cord	AF
	QCNW-2317PEZZ	J	Connecting Cord	AF
	QCNW-2318PEZZ	J	Connecting Cord	AK
	QCNW-2320PEZZ	J	Connecting Cord	AG
	QCNW-2389PEZZ	J	Connecting Cord	
	QCNW-2390PEZZ	J	Connecting Cord	
	QCNW-2391PEZZ	J	Connecting Cord	
	QCNW-2392PEZZ	J	Connecting Cord	
	QCNW-2395PEZZ	J	Connecting Cord	
	VSP1208PB316S	R	Speaker, x2	
	LHLDK0002PEK0	J	Holder	AA
	LHLDT0006PEK0	J	Holder	AE
	LHLDZ0063PEZZ	J	Holder	AD
	CSP-Z0108CE04	R	Speaker Box, x2	

SUPPLIED ACCESSORIES

			ACCESSORIES	
	RRMCG1498PESA	J	Infrared R/C Unit (29A-FX5)	AU
	RRMCG1497PESA		Infrared R/C Unit (29A-FX8)	AU
	TiNS-6839PEZZ	J	Operation Manual (29A-FX5)	AK
	TiNS-6838PEZZ		Operation Manual (29A-FX8)	
			ACCESSORIES (NOT REPLACEMENT ITEM)	
	TCAUA0002PEZZ	–	Caution Card	—

Ref. No.	Part No.	★	Description	Code
			PACKING PARTS	
			(NOT REPLACEMENT ITEM)	
	SPAKC6594PEZZ	–	Packing Case (29A-FX5)	—
	SPAKC6592PEZZ	–	Packing Case (29A-FX8B)	—
	SPAKC6631PEZZ	–	Packing Case (29A-FX8H)	—
	SPAKP0146PEZZ	–	Wrapping Paper	—
	SPAKX2726PEZZ	–	Buffer Material	—
	SSAKA0002PEZZ	–	Polyethylene Bag	—

CABINET PARTS

1	CCABA2543WEV0	R	Front Cabinet Ass'y (29A-FX5)	
1	CCABA2518WEV0	R	Front Cabinet Ass'y (29A-FX8)	
1-1	*Not Available*	–	Front Cabinet	—
1-2	HBDGB3141CESA	R	Badge, "SHARP"	AG
1-3	HDECQ0134PESA	J	LED Decoration, R/C Cover	AD
1-4	HDECQ0140PESB	J	Speaker Net (L)(29A-FX5)	
1-4	HDECQ0140PESA	R	Speaker Net (L)(29A-FX8)	
1-5	HDECQ0141PESB	J	Speaker Net (R)(29A-FX5)	
1-5	HDECQ0141PESA	R	Speaker Net (R)(29A-FX8)	
1-6	GDORF0182PESA	J	Door	
1-7	PKAi-0007PE00	J	Door Latch	AE
1-8	HiNDP0251PEZZ	J	Indication Plate, In Door	
1-9	JBTN-0326PESA	J	Power Button (29A-FX5)	
1-9	JBTN-0326PESB	R	Power Button (29A-FX8)	
1-10	MSPRC0005PEFW	J	Spring, Power Button	AB
2	CCABB2293WEV0	R	Rear Cabinet Ass'y (29A-FX5)	
2	CCABB2293WEV1	R	Rear Cabinet Ass'y (29A-FX8)	
2-1	*Not Available*	–	Rear Cabinet	—
2-2	HiNDP0253PEZZ	J	Indication Plate	

CABINET PARTS LOCATION